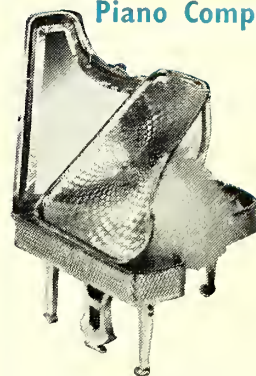


W.C.R.L.
31 JUL 1950

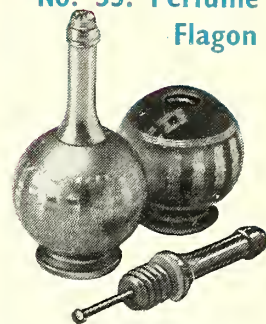
For Retailer, Wholesaler and Manufacturer

AUGUST 1 1953



A really outstanding novelty!
Legs fold up for handbag use.
Size closed: $2\frac{3}{4}$ by $2\frac{3}{8}$ by $\frac{5}{8}$ ins.
(7 by 6 by 1.6 cms.). Height
open: $3\frac{1}{2}$ ins. (8.9 cms.)

No. 33. Perfume
Flagon



Chianti Bottle shape. (Registered design). Perfume cannot evaporate. In Gilt or Black Enamel, with hand-engraved design. Neck of bottle mounted with paste ornament. Each supplied in Dorothy Bag and smart gold box. Height: 2 ins. (5.2 cms.)

**ALL PYGMALION PRODUCTS
ARE OBTAINABLE FROM
LEADING WHOLESALERS**

S. D. RAND LTD.

5-6 ARGYLL STREET,
LONDON, W.1.
Phone : Gerrard 3746/2801
Grams: Randperle, London.

The perspex floral ornaments are available with assorted flower designs



*Display Rowland's!
Get your big launch bonus!*

27¹/₃ PROFIT

ON EACH 3 DOZEN!

Make the most of the big launch bonus!

Display Rowland's on your counter for at least 14 days and for every 3 dozen ordered you will receive a credit note for 13s., giving you a profit on every 3 dozen of 27s. 3d. *This offer closes on 15th August, 1953.*

*Large Profits
Quick returns*

These new chlorophyll tablets are going to be best-sellers *fast*. They're nice-tasting and extra-effective. They've a handy display outer specially designed to prompt impulse sales.

And Rowland's are being launched with a really *big* Advertising Campaign—the biggest any chlorophyll tablet ever had!

Big advertisements will appear regularly in the *big*-circulation papers listed on the right:—



It's a smart pack that neatly gives one tablet at a time, holds 24, and retails at 1/9d.—and a handy outer specially designed for *your* counter.

Daily Express	4,094,000
Daily Mail	2,176,000
Daily Herald	1,923,000
Daily Mirror	4,452,000
Daily Sketch	800,000
Glasgow Sunday Mail	608,000
Belfast Telegraph	173,000

TOTAL CIRCULATION

14,226,000

ROWLAND'S CHLOROPHYLL TABLETS

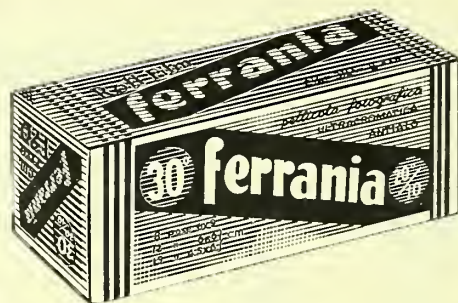
All trade enquiries to County Perfumery Co. Ltd., Honeypot Lane, Stanmore, Middlesex.
Telephone: WORDsworth 4321. Sole Selling Agents for A. Rowland & Sons Ltd.

IT is clearly evident from the latest marketing surveys that the public is increasingly concerned with value for money. There is, in addition, every indication that it is more conscious than ever before of the need for domestic and personal hygiene. Combine these two factors and you realise why more and more people are turning to Ibc^{ol}. *For Ibc^{ol} is the all-purpose disinfectant-antiseptic that gives the widest protection at the lowest price.*

Through extensive national advertising, millions of housewives have become aware that this is the germicide used in an ever-increasing number of hospitals and maternity homes. No wonder, then, that housewives place such complete trust in this most comprehensive of disinfectant-antiseptics; no wonder progressive chemists throughout the country find Ibc^{ol} so essential and so rewarding an item to stock and display.

ferrania

FILM



Special Holiday Bonus Offer

Ferrania roll films have been on the British market for four years and are well established as films of exceedingly high quality.

Advertising of Ferrania films has been mainly in the photographic press, but, as you know, a considerable number of Ferrania advertisements are appearing in the National Press.

We now wish further to popularise Ferrania films with the "snapshotter" and propose to make you a special Bonus offer in order to make it worth your while to arrange special displays and push sales of Ferrania Ortho roll films.

Discounts of 30% plus 10% will be given on all orders of one gross and over received by us from retail chemists until August 31st.

This offer does not apply to Panchromatic films but to Ferrania Ortho films, F20, F520, F27, F16 and F516.

Ample quantities of display material are available and will be sent on request. A brand new multi-coloured showcard, "Ferrania Girl," will be enclosed with each batch of film.

May we suggest you take advantage of this bonus offer by sending us your order now.

NEVILLE BROWN & COMPANY LTD.

77 NEWMAN STREET, LONDON, W.1. Tel: LAngham 7161 (10 lines)



"Dream Time"

EVERY FRIDAY FROM 10-10.15 P.M. THE LACTO-CALAMINE RADIO LUXEMBOURG PROGRAMME SELLS TO AN AVERAGE AUDIENCE OF 4 MILLION LISTENERS. NOW ECONOMICALLY PRICED, SALES ARE SOARING. YOUR REPEAT ORDERS MAY STILL BE PLACED ON BONUS TERMS.

BONUS PARCELS

PARCEL LA	26 × 4 oz. bottles @ 3/1½d. retail inc. P.T.	
	Total retail value	4 1 3
	Cost of parcel	3 1 8
PARCEL LB	84 × 4 oz. bottles @ 3/1½d. retail inc. P.T.	
	Total retail value	13 2 6
	Cost of parcel	9 11 8
PARCEL LC(S)	26 × 1 oz. bottles @ 1/7d. retail inc. P.T.	
	Total retail value	2 1 2
	Cost of parcel	1 10 10
PARCEL LC(L)	84 × 1 oz. bottles @ 1/7d. retail inc. P.T.	
	Total retail value	6 13 0
	Cost of parcel	4 15 10
PARCEL LD	26 tubes @ 3/1½d. retail inc. P.T.	
	Total retail value	4 1 3
	Cost of parcel	3 1 8
PARCEL LE	26 tins @ 3/1½d. retail inc. P.T.	
	Total retail value	4 1 3
	Cost of parcel	3 1 8

CARRIAGE PAID ON ORDERS OVER £2 NETT
IN VALUE EXCLUDING PURCHASE TAX.

CROOKES



Lacto-Calamine

P.A.T.A.



THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON • N.W.10



We are
actual
makers

We specialise in **quality ASPIRIN** *tablets*

**PACKED OR IN BULK
BEST PRICES
FINEST QUALITY
PROMPT DELIVERY**

also SACCHARIN TABLETS—still
the lowest price for large or
small quantities



The

WALLIS LABORATORY LIMITED

58 KING GEORGE'S AVENUE, WATFORD, HERTS.

Telephone: WATFORD 2812

GLANOID **PROETHRON XX**

LIVER EXTRACT INJECTABLE
WITH A MINIMUM OF 20 MICROGRAMMES
OF VITAMIN B₁₂ PER ml.

•
MAXIMUM RETICULOCYTE RESPONSE
WITH MINIMUM DOSAGE IN
PERNICIOUS ANAEMIA AND OTHER
MACROCYTIC ANAEMIAS
•

AMPOULES 3/1ml., 25/1 ml.
VIALS 10 ml.

—
Write for Literature to:

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

LINDSEY STREET LONDON E.C.1

Telephone: Clerkenwell 9011
Telegrams: "Armosata-Phone," London

New **WALT DISNEY** **Design**

DDT FLY CARDS

SQUARE & CUT OUTS

Sample & prices on application to :-

THE COUNTY PAPER MILLS

**72 TOTTENHAM COURT ROAD,
LONDON, W.1**

MUSEum 0655

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All eyes on the beach girl!

This gaily coloured display (12"x14") will catch your customers' eyes all summer through.

The sun-screening agent in a base of vanishing cream, that's Beach. It allows a healthy, pleasing tan to be acquired with no discomfort—or, if protection has been neglected, Beach soothes the rawness and prevents further burning. And remember, Beach is sold only through pharmacists.

beach SUN TAN CREAM

RETAIL PRICE 2/3 per tube. TRADE PRICE 12/- per doz. tubes.
SPECIAL TERMS 5% discount on 3 doz. 7½% discount on 6 doz.

THE BRITISH DRUG HOUSES LTD. LONDON N.1



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A Codis tablet

placed in water, provides in a few

seconds a SOLUTION of calcium aspirin and codeine

phosphate, with phenacetin in fine suspension.

For all those conditions for which, hitherto, Tab. Codein. Co. B.P. would have been prescribed, Codis may for preference be recommended. It is easier to administer: there is far less likelihood of aspirin intolerance; the absorption of aspirin, in solution, is accelerated.

The reason for these marked advantages is that in this familiar grouping of analgesic drugs the aspirin has been made soluble, as in 'Solprin' which, in a matter of seconds, produces a palatable solution of calcium aspirin.

The possibility of irritation of the gastric mucosa is minimised by the absence of undissolved particles of aspirin.

COMPOSITION *Each Codis tablet weighs 11.45 grs. and contains:* Acid. Acetyl-salicyl. B.P. 4 grs., Phenacet. B.P. 4 grs., Codein Phosph. B.P. 0.125 grs., Calc. Carb. B.P. 1.2 grs., Acid. Cit. B.P. (Exsic.) 0.4 grs.

Codis is not advertised to the public.

DISPENSING PACK (Purchase Tax Free), 300 tablets in distinctive gold foils of 6 tablets each, 16/6 per box.

OTHER SIZES—Packs of 20 tablets, 2/7 each inc. P.T. (in bottles or foil).

CODIS

REGD.
Soluble aspirin with codeine and phenacetin

LES USINES CHIMIQUES DES LABORATOIRES FRANCAIS



CAN SUPPLY

SYNTHETIC DRUGS
VITAMINS
AND HORMONES

AMINO-ACIDS
PIGMENTS
AND ENZYMES

GLYCOSIDES
AND ALKALOIDS

BIOLOGICAL
PRODUCTS



PLEASE ADDRESS INITIAL ENQUIRIES TO:

ROUSSEL LABORATORIES LTD.

847, HARROW ROAD - LONDON N.W.10

TELEPHONE : LADBROKE 3608 (3 LINES)

PRIVATE FORMULA

TABLETS

made to new standards of scientific exactness from over 100 years of accumulated manufacturing experience. Large-scale facilities enable us to handle grosses or millions according to your specific requirements.

SUPERBLY COATED OR UNCOATED.
IN BULK OR ATTRACTIVELY PACKED.



PIONEERS IN THE MANUFACTURE OF COATED TABLETS.

ARTHUR H. COX & CO. LTD.,
Manufacturing Chemists since 1839,
BRIGHTON, 7, SUSSEX.
TELEPHONE — BRIGHTON 23084-5-6

*Study the advantages
of this NEW*

MANESTY

VARI-SPEED
COATING PAN

The increasing demand for a coating pan with an infinitely variable speed range has resulted in the introduction of a new MANESTY machine which offers many advantages over earlier designs. This new 'CP2' Vari-speed model meets the majority of operators' requirements in that the speed of its pan ranges from 12-36 r.p.m. It can be fitted with the latest design Type III Hot Air Blower which has the following special features: It is independent of the pan speed; has a 6-speed range (hot or cold), an 18-stage heat control, a new design air disperser and an air filter on the intake. The Hot Air Blower is optional. A constant speed 'CP2' is also available. Write to-day for fuller details of this new model.

SPECIFICATION:

Height of machine (30" pan) 58" Speed of pan (infinitely variable) 12-36 r.p.m.
Horsepower required 1 h.p. Speed of motor 1,420 r.p.m.
Floor space occupied (inc. pan) 44" x 30" Approx. net weight (pan & stand) 540 lb.

MANESTY MACHINES LTD.

Dept. 5

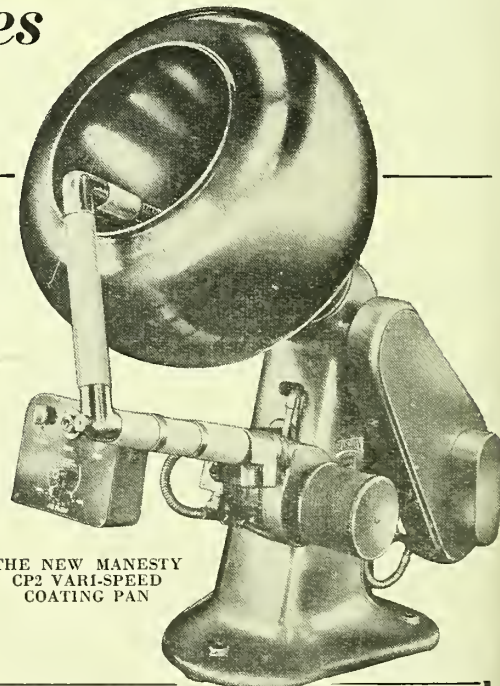
SPEKE

LIVERPOOL 19

Telephone: Hunts Cross 1972

Telegrams: Manesty, Liverpool 19

TABLET MACHINES • COATING PANS • GRANULATORS • MIXERS • PUNCHES AND DIES

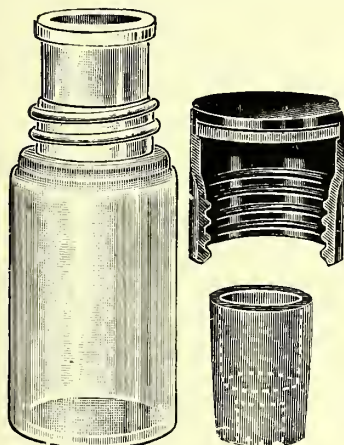


THE NEW MANESTY
CP2 VARI-SPEED
COATING PAN

Have you this book? "Tablet Making"—An authoritative volume by A. Little & K. A. Mitchell. 123 pp. 47 illus. 31 formulae. Cloth bound. 15/- net. Post free.

THE 'CLINBRITIC' VACCINE BOTTLE

Patent No. 492200



Assembly Details

★
IN ALKALI FREE
AMBER OR WHITE
GLASS
★



Completed

The following description is taken from WAR MEMORANDUM
No. 15, MEDICAL RESEARCH COUNCIL

"A very satisfactory pattern of vaccine bottle, which is rapidly coming into general use, is that described by Berry (1938). The skirted rubber vaccine cap, which closes the bottle, is protected by an outer Bakelite screw cap containing an absorbent pad which can be impregnated with a 10 per cent. solution of chloroxylonol B.P. Provided that the pad is kept well wetted with the solution of chloroxylonol, the skirted rubber cap beneath it will remain always sterile, and will require no further treatment before puncturing."

FULL DETAILS AND SAMPLES FROM:—

BRITTON MALCOLM & Co. Ltd

38 · SOUTHWARK BRIDGE **BM** ROAD · LONDON · S · E · 1

WAT 4874/6

D E P E N D A B L E

POLYVALENT INTESTINAL BACTERIOPHAGE

Enterofagos

The biological answer

ENTEROFAGOS is one of the series of M.B.L. preparations which enjoy the confidence of the Medical profession in this country and overseas. By prolonged laboratory and clinical tests it has been established as the biological answer to most intestinal, para-intestinal, kidney and bladder infections.

ENTEROFAGOS contains the active bacteriophages against Staphylococci, Streptococci, B. coli, B. Typhosus, B. paratyphosus, B. dysenteriae and Enterococci. Whatever the dosage, it can be given to adults or children without fear of harmful reactions, and this combination of efficacy and safety makes ENTEROFAGOS the ideal treatment for the infective conditions indicated.

The preparation is contained in ampoules to be taken orally according to the instructions supplied.

Indications

Most cases of Diarrhoea respond rapidly to treatment with ENTEROFAGOS. Colitis, Enteritis, Entero-colitis, Typhoid and Paratyphoid Fevers, Bacillary Dysentery, B.Coli Infections, Food Poisoning are equally responsive to its treatment.

The logo consists of the letters 'MBL' in a bold, sans-serif font, enclosed within a stylized shield-like border.

MEDICO-BIOLOGICAL LABORATORIES LTD
CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25



THE SIGN OF SERVICE
AND CO OPERATION

*Tubes and Containers
of distinction*

BY

U·M·P



UNIVERSAL METAL PRODUCTS LTD.

SALFORD 6 LANCs. Telephone: PENDLETON 1631-2-3

London Office: ARGYLE HOUSE, 29/31, EUSTON RD., N.W.1. Tel. TERMINUS 2073



Heralding I.Z.S.

INSULIN ZINC SUSPENSION A.B. (Available shortly)

With I.Z.S. the new type of insulin with zinc, rapid onset of effect with prolonged action is provided. I.Z.S. enables satisfactory control of the blood-sugar level to be achieved in about 90% of diabetics *by one injection daily*.

For the few patients who may require either longer or more rapidly acting mixtures there will also be available the quick acting Insulin Zinc Suspension (Amorphous) A.B. and the longer acting Insulin Zinc Suspension (Crystalline) A.B.

I.Z.S. INSULIN ZINC SUSPENSION A.B.

40 or 80 units per c.c. Vial of 10 c.c.
Duration of action—24 hours.

INSULIN ZINC SUSPENSION (Amorphous) A.B.

40 units per c.c. Vial of 10 c.c.
Duration of action—about 12 hours.

INSULIN ZINC SUSPENSION (Crystalline) A.B.

40 units per c.c. Vial of 10 c.c.
Duration of action—up to 30 hours.



TRADE MARK


The New **A.B. Insulins**

Joint Licensees and Manufacturers—

ALLEN & HANBURYS LTD
LONDON, E.2.

THE BRITISH DRUG HOUSES LTD
LONDON, N.1.

FOR CHEMISTS



DRUGS **SUNDRIES**

Manufacturing Chemists

PILLS • TABLETS
PROPRIETARIES

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

Quality First

We have been making compressed tablets for over 50 years. Our first consideration is always **QUALITY**.

Tablets to standard formulæ always in stock.

Our plant is capable of making perfect tablets from $\frac{1}{8}$ " to $2\frac{1}{2}$ " in diameter, and 8 milligrammes to 4 ounces in weight.

WE SPECIALIZE IN EXPERIMENTAL WORK

THOMPSON & CAPPER

WHOLESALE LTD.

**SPEKE HALL ROAD,
LIVERPOOL, 19**

Cannon Quality and variety help to build your sales !



Cannon research and progress have built up their world-wide prestige. Quality and variety, the keynote of their products; service and co-operation, the basis of their business. For 1953, Cannon have introduced the series of Capitol Bathing Caps, yet another addition to their wide range of quality goods, which will again this year be creating world-wide interest and demand. Now is the time to check your Cannon stocks. All products obtainable from your usual wholesaler.

CANNON RUBBER MANUFACTURERS LIMITED

(Dept. CD12) ASHLEY ROAD, TOTTENHAM, LONDON N17



MODERN Teats and
Soothers

WELLBORN Teats

EASIFLOW Feeders

MODERN Nurser

MODERN Feeder

CAPITOL Range of
BATHING CAPS

DOLPHIN AND
RIPPLE Hot
Water Bottles

NOAH'S ARK and
COTTAGE Series
of Novelty
Hot Water Bottles

CANNON
Multi-purpose
RUBBER MAT

The CANNON
RUBBER BUCKET

From the Carnegie Range of Fine Chemicals

PODOPHYLLIN

CARNEGIE CHEMICALS (WELWYN) LTD

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

Telegrams : CARNECHEM, WELWYN GARDEN

Telephone : WELWYN GARDEN 506 (4 lines)

Special Discount Allowance for **DERBAC** displays

FOR 30 YEARS
the proved remedy for trouble in the Hair

Your goodwill comes from the confidence your customers have in the soundness of your advice—in the efficacy of the products you recommend. For trouble in the hair Derbac has stood the test of 30 years. For serious cases recommend LIQUID DERBAC followed by regular shampooing and combing with DERBAC SOAP and COMB. You can prescribe it with the knowledge that you are recommending a certain and safe cure.



Complete eradication within the Hour!

DERBAC

SOAP | **LIQUID**
for slight infestation | for more serious cases
DERBAC COMB
Essential for use with Derbac Soap and Liquid.
FROM CHEMISTS ONLY

★ Have you seen the striking new Derbac Pack that attractively and tactfully draws attention to the one Product that has been curing trouble in the hair for over 30 years?

1. A special 5% display discount will be given on all orders, minimum two cases, for Derbac Soap and Liquid Derbac. Minimum case quantities—6 dozen Derbac Soap, 3 dozen Liquid Derbac.
2. This allowance is available on all orders received prior to the 31st August.

3. The placing of an order by you under this offer is accepted as your undertaking to display, prominently, goods when received, with the new attractive Derbac Showcard.
4. Your Derbac lines can be ordered with Derl and other soaps in the Roberts Windsor range.

ROBERTS WINDSOR SOAP COMPANY LIMITED · WINDSOR · ENGLAND

The Modern Dressings Packs

. . . they will keep your dressings business right in the forefront.



BLUE printed cartons for cotton wool;
GREEN for white lint;
RED for boric lint;
MAROON for gauze.

Certor

SURGICAL DRESSINGS in CARTONS

are just the answer to the needs of the modern pharmacy. They keep their shape. Tissue-wrapped, they keep clean in stock or on display. They help to keep your service abreast of the times!

And you get these advantages for very little extra cost. Start now and sell Certor cartoned dressings.

Illustrated folder on request.

All goods carriage paid in free packages

MACDONALD & SON LTD

HOPE MILLS

POLLARD STREET

MANCHESTER 4



**a palatable liquid
preparation—
containing the principal vitamins
in an orange base**

FORMULA

One teaspoonful (3.5 cc) contains:

VITAMIN A	2,500 i.u.	VITAMIN C	10 mg.
VITAMIN B ₁	0.5 mg.	VITAMIN D	375 i.u.

PRICES

	RETAIL	CHEMISTS	WHOLESALE
6 FL. OZ.:	3/9 each	30/- doz.	26/3 doz.
40 FL. OZ.:	24/- each	16/- each	14/- each

The 6 oz. bottle provides daily vitamin-insurance for one whole month.



V I T A M I N S L I M I T E D U P P E R M A L L L O N D O N . W . 6

GUANILLIN

now renamed...

GUANIMYCIN



The new Allen & Hanburys product containing Streptomycin and Sulphaguanidine, which has been widely prescribed since its introduction under the name Guanillin has now been renamed GUANIMYCIN.

Practitioners are finding that GUANIMYCIN meets a modern need in treating many distressing infections of the gastro-intestinal tract. It is issued as a stable, dry powder, from which a palatable homogeneous suspension is made. Each bottle contains Streptomycin Sulphate 1 gramme and Sulphaguanidine 8 grammes in a suspending agent.

INDICATIONS

GASTRO-ENTERITIS
BACILLARY DYSENTERY
SALMONELLA FOOD POISONING

12 BOXES OF THE NEW IMPROVED KOTEX

EXTRA PROFITS, SURE PROFITS

BECAUSE- women will soon discover that the new improved Kotex is more comfortable, more convenient !

BECAUSE- until September 30th our free goods offer gives you 12 boxes of Kotex for the price of 11 !

BECAUSE- the new box is ideally suited for display with an arresting green wrapper that tears off easily so as to hide the identity of the box when carried by your customers !

National Advertising in women's magazines will spread this exciting news about the larger " Stay-Soft " Kotex with loop ends to women everywhere in Great Britain !

Extra Comfort, Extra Confidence with KOTEX

Women will quickly appreciate the new, more absorbent, softer Kotex with its moisture-proof edging. They will find more comfort, more confidence in this larger soluble towel with rounded ends—made to stay soft while wearing—to retain its fit and chafe-free comfort. They will be looking for Kotex in its immaculate new box with removable wrapping !

THIS SPECIAL FREE GOODS OFFER ends September 30th

During Free Goods offer your price per doz. boxes is 18/7d.

NORMAL TRADE PRICE PER DOZEN BOXES—20/3d

KOTEX with loops : Retail Price per box 2/3d.

Packing : 4 dozen boxes per case

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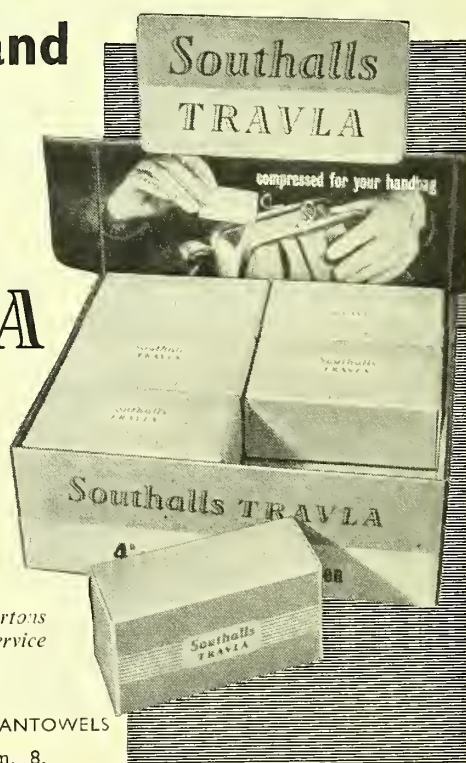
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland

Volume 160

August 1, 1953

No. 3832

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The CHEMIST AND DRUGGIST

Volume 160

AUGUST 1, 1953

No. 3832

Industrial Chemists Confer

72nd ANNUAL MEETING AT NOTTINGHAM

THE Society of Chemical Industry held its 72nd annual meeting in Nottingham, July 20-25—the fifth to be held in that city since the Society was founded in 1881. It was attended by about 370 members.

The Society's president (Mr. F. J. Curtis, B.A., vice-president and director of the Monsanto Chemical Co., St. Louis, U.S.A.) said in a message to members that the Society, a world-wide organisation, was the chief link between English-speaking industrial chemists of the world. The importance of its rôle in that regard was indicated by its policy of occasionally electing non-British presidents. "The Society must have a strong programme of expansion throughout the British Commonwealth of nations and wherever English-speaking chemists congregate."

On the first day of the meeting the lord mayor of Nottingham welcomed the members in the Great Hall of the University, and during the evening members were guests of the lord mayor and Nottingham Corporation at a reception and dance in the Council House.

In his presidential address, MR. CURTIS called for an extension of scientific knowledge. "Modern liberal education," he said, "is a failure. It has ceased to be liberal and tends to be fossil." It was generally recognised that a knowledge of the humanities was of value to the scientist, but the converse was not always apparent. "Education in every age," he continued, "must choose for the man of culture those things most important for that age. Liberal education has failed to meet the challenge by ignoring the most potent force of this modern age of ours, namely science. In this it has been partially abetted by scientific education which, because it was thrust out, has taken the point of view that it is only interested in teaching science to scientists, leaving the ordinary man of culture nowhere to go. Liberal education has been equally culpable in leaving out of its purview anything but the barest smattering of science."

At the annual dinner Mr. Curtis invested Sir William Ogg (director of Rothamsted Research Station) with a chain of office as president-elect, 1953-54.

Throughout the six days of the meeting a programme of scientific lectures, works visits and social activities fully occupied members. The success of the meeting was in no small measure due to the excellence of the arrangements made by the Nottingham

section and in particular to the work of its chairman (Mr. F. C. Ward, M.Sc., F.R.I.C., F.T.I., of W. E. Saxby, Ltd.) and secretary (Mr. J. R. Jarratt, M.Sc., A.R.I.C., of Boots Pure Drug Co., Ltd.), and to the chairman of the executive committee (Mr. L. Anderson, M.Sc., F.R.I.C., a director of Boots Pure Drug Co., Ltd.).

TRAINING AND LATIN

Topics for Branch Representatives

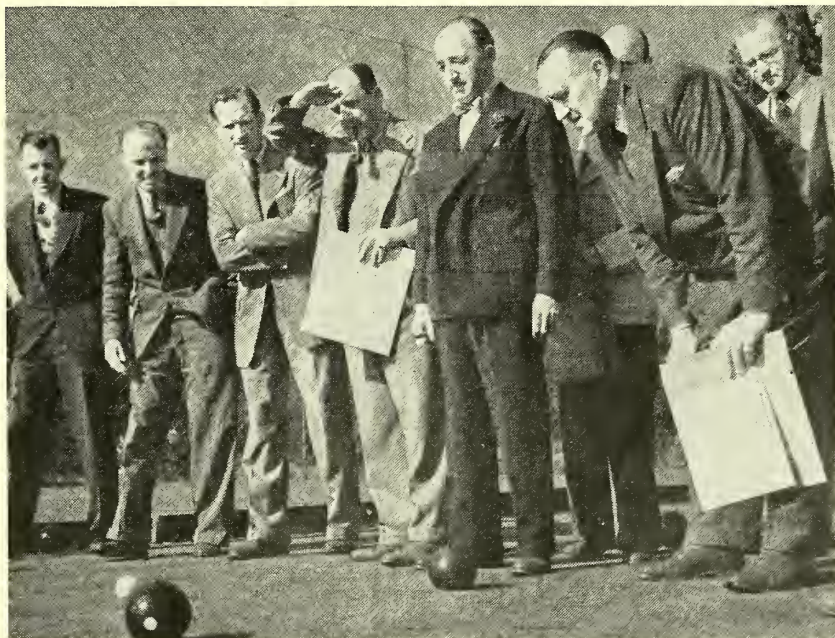
THE Pharmaceutical Society has issued the agenda for the Branch Representatives' meeting that is being held in London on September 3. The introductory remarks of the chairman (the president of the Society (Mr. T. Heseltine)) is being followed by a discussion on the "Problem of Practical Training," opened by four short papers: "Retail Practice" (Mr. T. G. Fernley Wallis, M.P.S.); "Hospital

Practice" (Mr. E. J. Fitchett, Ph.C.); "Manufacturing Practice" (Mr. E. K. Samways, B.Sc., B.Pharm., Ph.C., F.R.I.C.); and "Teaching" (Professor H. Brindle, M.Sc., Ph.C., F.R.I.C.).

Professor A. D. Macdonald, M.A., M.Sc., M.D., and Mr. D. W. Hudson, with short papers, are then opening a discussion on "The Future of Latin in Pharmacy."

MEDICAL LIBRARIANSHIP First International Congress

THE First International Congress on Medical Librarianship was held in London, July 20-25, and was attended by over 315 visitors from thirty-eight countries. The Congress was held under the presidency of Sir Cecil Wakeley, and the joint secretaries were Messrs. W. J. Bishop and C. Barnard (librarians respectively at the Wellcome Historical Medical Library, London, and London School of Hygiene and Tropical Medicine). About sixty papers were read, among them one by Miss A. Lothian (librarian, Pharmaceutical Society) on the organisation of a pharmaceutical library. At the close of the Congress a committee was appointed to deal with the holding of a second congress and to explore further ways of co-operation between the medical and allied libraries of the world.



A DIRECTOR'S BOWLING PARTY: Mr. Harold J. Cotes (managing director, British Glues & Chemicals, Ltd.) and Mrs. Cotes with guests they entertained at the company's twentieth annual garden party. Shading his eyes is Mr. G. Bassett Day (a director of Calfos, Ltd.).

POLIOMYELITIS

Three die in Londonderry outbreak

IN an outbreak of poliomyelitis in Londonderry, Northern Ireland, there have been three deaths. There are thirty-five cases in hospital in Londonderry, of whom twenty-nine have been confirmed and in Donegal, Eire, there are ten confirmed cases. In Kent thirteen cases have been reported recently and in Maidstone two victims have died.

In Tanganyika, since the beginning of the year a total of seventy-eight cases among Africans have been reported; fourteen have died. Measures to control the outbreak include the treatment of premises on which cases have occurred with a residual insecticide to combat the fly menace.

CUSTOMS AND EXCISE

Special attendance charges

THE Commissioners of Customs and Excise state (in Notice No. 113) that from July 31, revised hourly rates necessitated by increased departmental costs will be levied where special official attendance is supplied at the request of merchants and traders. The rates will apply in all cases in which the attendance has been chargeable in the past but no change is involved in the general conditions under which a normal free attendance is provided at approved places.

MEDICAL RESEARCH

Progress in 1951-52

THE report of the Medical Research Council 1951-52, recently published (H.M. Stationery Office, 6s. 6d.) shows that in the Council's research programme the following was achieved: On biological standards, new International Standards for penicillin, penicillin K, insulin, oxophenarsine were established; collaborative assays for projected International Standards for dihydrostreptomycin, aureomycin, terramycin, bacitracin and dimercaprol were organised; and preparatory researches on materials for the proposed 2nd International Standard for cortico-

trophin, and for new standards for vitamin B₁₂, scarlet fever antitoxin and diagnostic salmonella antisera undertaken. A British Biological Standard for globin zinc insulin was established.

In chemotherapy the search for new antimalarial drugs among the aryl diaminopyrimidines and analogous derivatives of other heterocyclic nuclei was continued. Hetrazan labelled with ¹⁴C, was prepared preparatory to studying the mode of action of the drug in filariasis. The mode of action of Antrycide, with special reference to its effect on the nucleic acids of trypanosomes, was studied, and potential amebicides were synthesised and tested. In the fight against tuberculosis the effect of polyoxyethylene ethers in protecting against tuberculous infection and the relation of their structure and molecular size to therapeutic efficacy and toxicity were studied. Effects of steroid hormones on host resistance to tuberculosis were investigated and derivatives of *p*-aminosalicylic acid synthesised and tested. Isonicotinic acid hydrazide was also studied. New antibiotics from various organisms were isolated; deoxycorticosterone analogues synthesised and assay methods for ACTH investigated.

The Clinical Chemotherapeutic Research Unit, Glasgow, W.1, continued its investigation into the mode of action of sodium salicylate and γ -resorcyate, etc., in the treatment of rheumatic fever.

The report contains the recommendation of a joint committee with the Ministry of Health on the promotion of clinical research (*C. & D.*, July 18, p. 50) and statements on aspects of medical research (see also p. 117).

IRISH NEWS

Irish Drug Association

AT a meeting of the committee of the Irish Drug Association held in Dublin, recently, an altered distribution policy of certain companies was considered at length and members were urged to support those companies that confined their distribution to pharmacists. An appeal was made to retailers to ensure

that confined lines were not made available to non-chemists for re-sale. It was alleged that some manufacturers were altering their distribution policy to supply non-chemists direct because they claimed that if they did not do so chemists would re-distribute to non-chemists. The committee believed that members were not so re-distributing goods. It was stated that reduced profit margins on certain lines were under review by the committee. The meeting discussed complaints regarding price-cutting by non-chemists and the secretary was directed to take the matter up with the manufacturers. The attention of members was again drawn to the fact that a certain brand of blackcurrant syrup was now confined to chemists.

The following were elected members of the Association: Butler's Pharmacy, 1 New Ireland Road, Rialto, Dublin; Philip Cassidy, L.P.S.I., Dublin Street, Monaghan; P. J. Dougan, R.D., 72 O'Connell Street, Clonmel, co. Tipperary; D. M. Fleming, D.C.D., Southern Pharmacy, Southern Road, Cork; Miss M. A. Foley, L.P.S.I., Bagnalstown, co. Carlow; T. D. Higgins, L.P.S.I., 25 Castle Street, Tralee, co. Kerry; Mrs. E. Keary, L.P.S.I., 57 Collins Avenue, E. Donnycarney, Dublin; Miss L. Murphy, L.P.S.I., Earl Street, Dundalk, co. Louth; J. M. Murray, L.P.S.I., 13 Swords Road, Whitehall, Dublin; M. J. O'Brien, M.P.S.I., The Medical Hall, Cloyne, co. Cork; P. F. O'Gorman, M.P.S.I., 52 Gladstone Street, Clonmel, co. Tipperary; E. O'Reilly, M.P.S.I., Main Street, Ballyconnell, co. Cavan; Dr. D. Parker, Bridge Street, Newcastlewest, co. Limerick; T. Slattery, L.P.S.I., 17 Pearse Street, Fermoy, co. Cork; L. Smullen, L.P.S.I., Roebuck, Clonskeagh; and F. Woods, Ltd., Castleblaney, co. Monaghan.

Examination Results

THE following have passed Part II of the Licence examination held in July by the Pharmaceutical Society of Ireland: James Gerard Burke, Penelope Caffrey, Ellen Campion, James Joseph Coffey, Cialian Conefrey, Robert Costigan, Mary Hanly, Peter P. Hayes, Sarah Kate Keane, Mary Anne Kiely, Margaret M. M. McMonagle, Laurence M. Moloney, Jane O'Shea, John Scannell, Una Swanton, Sister Mary Pacelli Ward, John Kingston Young.

Belfast Graduates

NEW graduates of Queen's University, Belfast, as Bachelors of Science in Pharmaceutics are Frederick A. Dundee, Douglas R. A. Jones, William H. Stewart, and Eleanor M. Welsh.

Offices Closed During August

THE offices of the Pharmaceutical Society of Ireland, 18 Shrewsbury Road, Dublin, will be closed during August.

Irish Drug Association

AT the first meeting of the committee of the Irish Drug Association held in Dublin following the annual meeting on June 22, Mr. T. R. Bourke, vice-



GOLF TROPHY PRESENTATION: Mr. C. W. Robinson (a director of Evans Medical Supplies, Ltd.) presents the Evans golf trophy to Mr. D. Cooke, who won it at the Liverpool Chemists' Golfing Society's match on July 8.

president, 1952-53, was unanimously elected *President*. Mr. D. J. Murphy was elected *Vice-president* and Mr. T. C. Scott, *Treasurer*.

NEWS IN BRIEF

Starch and Glucose Imports.—Details have now been announced (in Notice to Importers, No. 579) of the arrangements whereby glucose and starch may be imported by private traders from September 27 (see *C. & D.*, July 25, p. 73).

Chemical Laboratory Visits.—The 1953 "open days" of the Teddington chemical research laboratory of the Department of Scientific and Industrial Research are from September 22 to 25. Applications from industrial companies not on the mailing list for invitations should be sent to the director of the laboratory before August 31.

British Standards Yearbook.—The 1953 edition of the British Standards Yearbook was published recently and gives a list of the 2,000 British Standards current at the end of March 1953, with a brief description of the subject matter of each. There is a comprehensive index. For the first time the Yearbook gives a list of the British Standards under which the Institution's certification trade marks are used. Copies of the Yearbook may be obtained from the British Standards Institution, 24 Victoria Street, London, S.W.1, price 12s. 6d.

Rat Poison Control.—At the Manchester Assizes on July 20 during the trial of Alfred and Louisa Merrifield who are charged with the murder of a woman who, alleges the prosecution, died from poisoning by phosphorus obtained from Rodine rat poison, Sir Lionel Heald, Q.C. (Attorney-General) told the court that rat poison could be purchased at a chemist's shop without the necessity of signing a register. He had taken the matter up with the Home Office and suggested that the Poisons Board should take steps to alter that. The presiding judge is Sir Hildreth Glyn-Jones, Q.C., Ph.C.

SPORT

Golf.—LONDON CHEMISTS' GOLFING SOCIETY, at West Surrey golf club, on July 5. Competition for Aspro rose bowl won by H. R. Dawson 72 net. At West Herts golf club on July 23, medal competition for Mentholatum prize won by R. Poole (11) 72 net. Bogey competition for Kerfoot trophy won by A. H. Newcombe (5) 2 down. Other leading scorers: medal; A. H. Newcombe 74, E. G. Smith 76; bogey; R. Poole 1 down, E. G. Smith 4 down, H. James 4 down, R. H. Davies 4 down, T. T. Johnson 4 down, and C. H. Maile 4 down.

IRISH CHEMISTS' GOLFING SOCIETY, at Dun Laoghaire golf club recently, for prizes presented by Proprietaries (Eire), Ltd., and Harwood Bros., Ltd. Eighteen holes stroke competition won by E. MacManus (14) 64; runner-up, A. C. Hennessy (20) 65; third prize won by C. J. Clancy (23) 67. Eighteen holes bogey competition: 1, D. P. McHugh (8) 2 up; 2, F. J. Roche (8) 2 up; 3, M. L. Cashman (6) 1 up. The Captain (Mr. W. F. M. Keys) presided at a supper held after play when the prizes were presented by Mr. Percy Harwood on behalf of the two companies. Mr. Lomax of Proprietaries (Eire), Ltd., was amongst those present. Cordial votes of thanks were given to the donors of the prizes.

TOPICAL REFLECTIONS

By Xrayser

A Guide for Students

Annually, about this time of year, your Educational Number (as we have learned to call it) appears, primarily for the benefit of students. The cost of qualifying in pharmacy is so much greater than it was a generation or so ago that, even allowing for the winning of scholarships, prospective holders of degrees or diplomas will, as a matter of prudence, consider the return likely to follow success in the examination hall. Pages 87-97 of your issue of July 25 are particularly welcome for their conciseness. Anyone requiring fuller information can buy or borrow a copy of the calendar or the requisite regulations of the Pharmaceutical Society or any of the other examining bodies. The illustrations on the last three of the pages mentioned give an excellent idea of apparatus found in a modern teaching institute, in an up-to-date hospital pharmacy department, and in the Scottish examination laboratories. It is evident that sterilisation is, more than ever before, a primary factor in many types of operation.

Pharmaceutical Education in the U.S.A.

A few days ago I received a copy of "Higher Education," Vol. IX, No. 12, containing an article by Dr. Glenn Sonnedecker and Dr. George Urdang on pharmaceutical education in the United States. For comparison with the conditions of similar education in Great Britain I have taken the following facts from this article. In 1951 there were in the States at least 101,568 licensed pharmacists, of whom about 87.2 per cent. were in retail business and about 7 per cent. in manufacturing and wholesale houses. Reciprocity in licensing exists between forty-five states and "the District of Columbia." National periodicals number twenty; sectional, state and local periodicals make an additional forty-eight. The oldest journal, the *American Journal of Pharmacy*, has appeared continuously since 1825. The *American Journal of Pharmaceutical Education*, started in 1937, is published quarterly. As is widely known, the Philadelphia College of Pharmacy dates from 1821: its commemorative centenary volume was the subject of a *C. & D.* editorial article. During the nineteenth century, eighty-three or more schools had pharmacy students. In 1932 the American Association of Colleges of Pharmacy, founded in 1900 (as the American Conference of Pharmaceutical Faculties), formed, with the assistance of the American Pharmaceutical Association and the National Association of Boards of Pharmacy, the American Council on Pharmaceutical Education. Undergraduate enrolment in colleges of pharmacy increased from about 4,000 in 1900 to more than 20,000 in 1950; in 1951 the number fell by about a fifth.

A Classification of Proprietaries

It would have been better, I suggest, for the Ministry of Health and the Department of Health for Scotland to have waited till all their categories of proprietary medicines were completed, and to issue them then. The present partial list (pp. 76-77) creates an obvious difficulty. Secretaries of medical and pharmaceutical committees may remember the terms of the categories printed in the *C. & D.*, 1950. II. 47, but, probably, few other people have kept them in mind. It looks as if the experts engaged on the admittedly arduous task of classifying had become so tired of it that they decided to clear away some part. Panel chemists will need to guard against overstocking any of the articles now under suspicion. The statement issued by the Association of British Pharmaceutical Industry (p. 73) is welcome. In a desire, as I suppose, for academic precision, the Joint Committee on prescribing has shown what the Association politely calls a weakness in classifying products in categories 5 and 6. I see no reason why categories 4, 5 and 6 should not have been merged into one category. One product in category 6 is, to my knowledge, being prescribed; no doubt there are others. Two things may safely be predicted: one, that these categories will need frequent revision; two, that no one is likely to make a fortune out of National Health Service dispensing.

CONFERENCE SCIENCE PAPERS

THE following papers are being read at the Science Sessions of the nineteenth meeting of the British Pharmaceutical Conference, London. (Tickets are not required for admission to any Science Session nor to the Symposium Session and pharmacists and others who are interested are invited to attend. It will not be possible for those who attend the sessions without tickets to join in the Conference lunches or to attend any of the other Conference functions):—

Monday, August 31, at 2.15 p.m.

1. AN *in vitro* EVALUATION OF COMMONLY USED ANTACIDS WITH SPECIAL REFERENCE TO ALUMINIUM HYDROXIDE GEL AND DRIED ALUMINIUM HYDROXIDE GEL. *J. Armstrong and Mary Martin.*
2. THE EVALUATION OF BUFFER ANTACIDS, WITH PARTICULAR REFERENCE TO PREPARATIONS OF ALUMINIUM. *D. N. Gore, B. K. Martin and Mary P. Taylor.*
3. THE CHEMICAL EVALUATION OF ANTACIDS. *H. Brindle.*
4. THE DETERMINATION OF CALCIUM AND MAGNESIUM. *R. L. Stephens.*
5. THE STABILITY OF ANEURINE HYDROCHLORIDE IN PHARMACEUTICAL PREPARATIONS. *H. Partington and C. E. Waterhouse.*
6. CYANOCOBALAMIN AND HYDROXYCOBALAMIN IN VITAMIN B₁₂ INJECTIONS. *Nora Baxter, Janet Horsford, F. Wokes, F. W. Norris and S. J. G. Fernandes.*
7. THE COLORIMETRIC ESTIMATION OF MORPHINE IN CAMPHORATED TINCTURE OF OPIUM. *G. Tunstall and Mary P. Taylor.*

Tuesday, September 1, at 2.15 p.m.

8. ELEVATED TEMPERATURE AS AN ARTIFICIAL BREAKDOWN STRESS IN THE EVALUATION OF EMULSION STABILITY. *H. P. Levins and F. G. Drommond.*
9. BACTERIAL SURVIVAL IN SYSTEMS OF LOW MOISTURE CONTENT. PART V. COMPARISON OF TESTS FOR STERILITY OF OILS. *K. Bullock and N. H. Booth.*
10. THE PREPARATION OF DRY EXTRACTS OF CASCARA. *W. H. Bruce and T. D. Whittet.*
11. ALKALOID BIOGENESIS. PART II. CHANGES IN THE ONTOGENETIC PRODUCTION OF ALKALOIDS IN *Atropa* AND *Datura*. *W. C. Evans and M. W. Partridge.*
12. ALKALOID BIOGENESIS IN TETRAPLOID STRAMONIUM. *J. M. Rowson and Betty P. Jackson.*
13. VEGETABLE PURGATIVES CONTAINING ANTHRACENE DERIVATIVES PART VII. THE EVALUATION OF CASCARA SAGRADA AND ITS PREPARATIONS. *J. W. Fairbairn and G. E. D. H. Mahran.*
14. THE ESTIMATION OF TROPANE ALKALOIDS IN VEGETABLE DRUGS BY PAPER PARTITION CHROMATOGRAPHY, WITH SPECIAL REFERENCE TO THE ALKALOIDS OF *Datura sanguinea*. *R. E. A. Drey and G. E. Foster.*

Wednesday, September 2, at 9.30 a.m.

15. STUDIES IN THE PHARMACOLOGY OF 4-BENZAMIDO SALICYLIC ACID AND ITS SALTS. *E. M. Bavin and Barbara James.*
16. 21 - ACETOXY - 12 α : 17 α - DIHYDROXYPREGN-4-ENE-3:20 - DIONE AND ITS ANTI-CORTISONE PROPERTIES. *Winifred J. Adams, B. G. Cross, A. David, F. Hartley, D. K. Patel, V. Petrow and Isobel A. Stuart-Webb.*
17. ASCARIDOLE STUDIES. PART II. AN EXAMINATION OF THE IODOMETRIC AND POLAROGRAPHIC METHODS OF DETERMINATION OF ASCARIDOLE. *A. H. Beckett and G. O. Jolliffe.*
18. THE ASSAY OF TINCTURES OF DIGITALIS AND OF THE GLYCOSIDES OF *Digitalis purpurea*. *H. Brindle, G. Rigby and S. N. Sharma.*
19. SEPARATION OF ALKALOIDS BY PARTITION PAPER CHROMATOGRAPHY. PART III. THE ASSAY OF ERGOT. *J. E. Carless.*

Thursday, September 3, at 9.30 a.m.

20. SOME OBSERVATIONS ON THE B.P. AND U.S.P. TESTS FOR PYROGENS. *J. G. Dare.*
21. A NOTE ON SURFACE ACTIVE AGENTS AND SURGICAL DRESSINGS. *D. Maxwell Bryce and R. Maxwell Savage.*
22. STUDIES IN THE DETERIORATION OF AQUEOUS SOLUTIONS AND DISPERSIONS OF PROCAINE PENICILLIN. *R. Levin.*
23. THE ORIGIN OF STIMULATION ZONES ON PENICILLIN ASSAY PLATES. *N. D. Harris and S. E. Jacobs.*
24. THE MICROBIOLOGICAL ASSAY OF

MIXTURES OF PENICILLIN AND DIHYDROSTREPTOMYCIN. *D. G. Lewis and G. Sykes.*

25. THE DEMONSTRATION OF PROLONGED ACTION OF LONG-ACTING INSULIN PREPARATIONS IN THE GUINEA PIG. *G. A. Stewart and J. V. Smart.*
26. AIR FILTERS FOR SMALL-SCALE ASEPTIC UNITS. *G. Sykes and D. V. Carter.*

Symposium Session

Tuesday, September 1, at 9.30 a.m.

The subject for discussion at the Symposium Session will be CONTAINERS AND CLOSURES. The discussion will be opened by four speakers as follows :— EXPERIENCES WITH CONTAINERS AND CLOSURES IN THE PHARMACEUTICAL INDUSTRY (Mr. D. Stephenson), GLASS FOR PHARMACEUTICAL PURPOSES (Miss V. Dimpleby), THE TECHNOLOGY OF RUBBER (Mr. J. Haworth), and PRACTICAL ASPECTS OF RUBBER AND GLASS (Professor H. Berry).

Galley proofs of the science papers listed above and copies of the papers to be read by the opening speakers at the Symposium Session, will be available a few days before the Conference. Members who are attending the Conference and who would like to receive copies of the papers are asked to communicate with the secretaries, 17 Bloomsbury Square, London, W.C.1, enumerating those papers in which they are specially interested. It is pointed out that applications for papers must be received not later than August 14.

N.H.S. STATISTICS

IN DERBYSHIRE for the year ended March 31, seventy-one test samples of medicine were taken of which two needed to be referred for investigation.

IN ENGLAND in August 1952, 12,953,542 prescriptions (7,597,169 forms) were dispensed at a total cost of £2,709,428. In September the figures were respectively 14,962,563 (8,701,333), and £3,056,441; and in October were 17,067,950 (9,884,188), and £3,472,247.

IN BANFF, MORAY AND NAIRN for the year ended March 31, total payments to chemists were £125,680 compared with £127,248 the previous year. The number of prescription forms dispensed was 335,396, a decrease of 52,324 from the year before. The introduction of the shilling charge to patients immediately reduced the number of forms by between 5,000 and 6,000 per month. Under the charges patients paid about £11,300 to March 31.

IN WALLASEY, Ches, in the year ended March 31, the pharmaceutical service cost £147,242. From that total should be deducted over £11,000 received from charges to patients, making the net total £135,770 compared with £131,833 the previous year. The cost of the pharmaceutical service per head of the population was £1 6s. 8d.

compared with £1 5s. 10d. the year before. During the year four cases against pharmacists were investigated. In one of those a pharmacist was warned to exercise more care in his dispensing; another had a monetary penalty imposed, and in the other two cases no further action was taken.

IN LONDON on April 1, there were 1,127 chemist contractors and 244 suppliers of surgical appliances. Out of 630 test prescriptions during the year ended March 31, 500 were satisfactory, in sixteen cases the contractor was censured and money deducted from his remuneration; in six cases the contractor was cautioned and money deducted; in one case a censure and in sixteen cases a caution was given; in six cases a breach of terms of service was found; and in seven cases referred to the Pharmaceutical Service committee no further action was necessary. Eighteen cases still await consideration by the committee; and sixty reports are still awaited from the analyst. Out of seventy-one reports awaited from the analyst at March 31, 1952, fifty-seven were satisfactory. Of the other fourteen cases, there was a censure and deduction of money in five, caution and deduction in one, caution in four, breach of terms of service in two and no further action required in two.

NORTHERN IRELAND STATUTORY COMMITTEE

Decision reserved in late hours case

THE Statutory Committee of the Pharmaceutical Society of Northern Ireland reserved its decision after hearing complaints of late opening against two Londonderry chemists on July 20. The notices served on the chemists by the Society said that it appeared from information received that each was in breach of the agreement and arrangement between himself and the other pharmaceutical chemists in Londonderry and that, when not required to do so under the rota arrangement with the Northern Ireland General Health Services Board, both habitually kept and had kept open their shops and premises after 7 p.m. on March 16 and March 26, and had dispensed and compounded National Health Service prescriptions.

The complaint also said that, on March 16, the chemists had sold toilet requisites at their premises in breach of the Shops Acts and regulations made under it. The complaint alleged was that such conduct had endangered the continuance of the rota system which as contractors they were obliged to provide in accordance with their terms of service with the General Health Services Board and amounted to professional misconduct on their part in relation to the business as pharmaceutical chemists. The notices added that the Committee could if thought fit direct the removal of the chemists' names from the register.

MR. H. W. GAMBLE (a member of the Pharmaceutical Advisory Committee of the Board) said one of the objects of the rota system was to ensure that some chemist's shop would be open for emergency prescriptions. Another object was to prevent chemists from performing long hours of work that might lead to the making of mistakes through weariness. The system was thus designed to safeguard both the public and the chemists.

Evidence of entering the shops of the two chemists named in the proceedings was given by an inquiry agent. He said that at 7.10 p.m., when he went into one shop, there were about eight people present. At 7.30 the front doors were closed and the blinds drawn. As that was being done two women entered. When the agent received his prescription at 7.25 he also purchased a bottle of hair oil and saw a youth purchase a box of lozenges. While he was there someone knocked on the door of the shop and was admitted. Witness said he entered the other shop at 7.35 p.m., and at that time a youth was coming out. He himself and a woman were admitted after knocking on the door.

COUNSEL for the two chemists asked the Committee not to take a serious view of the question of the sale of toilet requisites. The sales were made to persons who were quite properly there as far as the law was concerned to get prescriptions compounded, and the charge could be regarded as excusable. On the other issues he asked the Committee to take into consideration that there were about thirty

chemists in Londonderry city but that twenty-five were on the city side of the river. The other five included the two before the Committee. The result was that only in one week in three was a rota chemist open in that area and people from the country had to walk long distances to get their prescriptions dispensed. He submitted that the matters alleged did not constitute misconduct.

THE SOCIETY'S REPRESENTATIVE said that the Society had a high standard to

uphold. The Society viewed with concern a matter of that kind, in which members were ready and willing to enter into arrangements with the Board and afterwards paid no attention to their obligations.

THE CHAIRMAN of the Committee (Mr. W. F. Patton, Q.C.) said the decision would be announced later. Other members of the Committee present were Messrs. H. G. Campbell, H. H. Cowzer, H. P. Crossin, R. Gibson, and Walter C. Tate.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

SIR ARTHUR SALTER told DR. B. STROSS on July 20 that 30 per cent. of the sulphuric acid made in Great Britain was made from home-produced materials and that the use of anhydrite for that purpose would be multiplied about three times within a few years when certain plans were completed.

Merchandise Marks Bill

On the report stage of the Merchandise Marks Bill, on July 24, Mr. F. T. WILLEY moved a new clause to provide that :

every person who sold or exposed for or had in his possession for sale or any purpose of trade or manufacture any goods or things to which any forged trade mark or false trade description was applied, or to which any trade mark or mark so nearly resembling a trade mark as to be calculated to deceive, was falsely applied as the case might be, should, unless he proved either:—(a) that having taken all reasonable precautions against committing an offence against the Act he had at the time of the commission of the alleged offence no reason to suspect the genuineness of the trade mark, mark or trade description and that on demand made by or on behalf of the prosecutor he gave all the information in his power with respect to the persons from whom he obtained such goods or things; or (b) that otherwise he had acted innocently; be guilty of an offence.

That was a "tidying-up" proposal to alter Section 2 of the Merchandise Marks Act, 1887. It was accepted, and the Bill was read a third time.

Health Service Charges

MR. IAIN MACLEOD (Minister of Health) told MR. H. A. MARQUAND on July 23 that he would not present a White Paper reviewing the effects of the charges for appliances and treatment in the hospital and general practitioners services imposed in 1951 and 1952 as he thought that the information could best be given by Parliamentary question and answer.

Prescription Costs

MR. IAIN MACLEOD told COLONEL M. STODDART-SCOTT on July 23 of measures he had taken towards reducing the cost of prescriptions (*C. & D.*, July 25, p. 73). He had been assured of the co-operation of the medical profession "in our joint efforts" to keep

the costs of prescribing within proper limits.

Sale of Phosphorus

MR. ARTHUR LEWIS asked the Home Secretary on July 20 "if he is aware that it is possible for any person, including juveniles to purchase freely, without signature, rat poison containing yellow phosphorus with enough lethal effect to kill five people; and whether he will introduce regulations making it obligatory on shopkeepers, chemists, etc., to obtain signatures in a specified poison book before the sale of such articles."

SIR DAVID MAXWELL FYFE replied: Rat poisons containing yellow phosphorus may be sold to the public by retail chemists only. I am asking the Poisons Board to consider whether their sale should be further controlled.

P.A.T.A. Policy

In the course of a debate on the Monopolies and Restrictive Practices Commission Bill on July 17 Mr. H. WILSON said that since his speech on second reading the Proprietary Articles Trade Association had drawn his attention to a statement they had published about hand cream because Sir Hartley Shawcross had referred to the case in the House two years previously. The Association said that it was not their practice to insist that shopkeepers sell at an increased price any goods which they had in stock and had bought at a lower price. To that extent they said that Sir Hartley and, by implication, himself, were wrong in what they said. "If that is so, I accept what they say, but that does not in any way affect the argument about the snooping going on under the aegis of the P.A.T.A. and similar bodies."

Fluoridation of Water

MR. A. BLENKINSOP asked the Minister of Health on July 23 whether he would arrange for further investigations in the fluoridation of piped water supplies in selected areas in view of the report of the United Kingdom mission to U.S.A. and to Canada.

MISS P. HORNSBY-SMITH (Parliamentary Secretary to Minister of Health) replied that the Mission's report was being carefully studied, and it was too early to make a statement.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

J. G. BRIGHAM, LTD. (P.C.).—Capital £500. To acquire the business of a chemist carried on at 14 Leeds Road, Windhill, Shipley, Yorks. Directors: Mary Brigham and John W. Brigham, M.P.S.

NYLO-PUFF, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in powder puffs, etc. Directors: Harry Greenfield and Stanley Greenfield. R.O.: 91a High Street, Camberley, Surrey.

OAKHAM PACKING CO., LTD. (P.C.).—Capital £10,000. To acquire the business of a grower, packer and vendor of herbs carried on by Peter R. Hill at Wymondham, Leics. Directors: Peter R. Hill and Joan M. Hill.

GILLMANS (DISPENSING CHEMISTS), LTD. (P.C.).—Capital £1,500. To acquire the business of chemists carried on at 251 Ashton New Road, Beswick, Manchester. Directors: Sadie Casson and Nita Binnes.

H. D. HAIGH (CHEMIST), LTD. (P.C.).—Capital £100. To carry on the business of merchants of chemical preparations, drugs, patent medicines, etc. Directors: Harold D. Haigh, M.P.S., and Grace Haigh. R.O.: 4 Queensway, Bayswater, London, W.2.

CORISALES, LTD. (P.C.).—Capital £6,000. To carry on the business of agents for the sale and distribution of perfumes, essences, oils, etc. Solicitors: Aukin Courts & Co., 5 Queen Anne Street, London, W.1. Directors are not named.

SCOTTISH MEDICAL SUPPLY, LTD. (P.C.).—Registered in Edinburgh. Capital £100. To deal in all kinds of medical and surgical appliances, etc. Directors: Ada M. Key and Dorothy Key. R.O.: 14 Manor Place, Edinburgh.

A. CARTWRIGHT (HENLEY), LTD. (P.C.).—Capital £5,000. To carry on the business of pharmacists, opticians, etc. Directors: Ronald A. Neville and Constance Neville. R.O.: 25 Bell Street, Henley on Thames, Oxon.

J. S. R. MAUNDER, LTD. (P.C.).—Capital £100. To carry on business for the control and extermination of all pests, diseases, fungoid growths, etc. Directors: Horace E. Morrish and John S. R. Maunder. R.O.: 27 Finsbury Square, London, E.C.

CARINA (LONDON), LTD. (P.C.).—Capital £100. To carry on the business of manufacturing, wholesale and retail chemists, etc. Directors: Frederick Weller, Charles V. Cave and Douglas J. Fielding. R.O. Clive House, Portsmouth Road, Esher, Surrey.

NEW FOREST PINE PRODUCTS, LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing research and dispensing chemists, etc. Directors: Joan C. L. Branch, and Marsden W. E. Mear. R.O.: 124 Old Christchurch Road, Bournemouth.

PIETER SCHOEN & ZOON (ENGLAND), LTD. (P.C.).—Capital £100. To carry on the business of chemists,

druggists, opticians, etc. Subscribers: James K. Wilkie and Edward G. Jones. Solicitor: John E. Owens, 15 Moorfield, Liverpool.

VENDEX CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing, dispensing and analytical chemists, etc. Directors: Eric W. Herren and Elwyn G. Fidler. R.O.: 30 Hart Street, Henley on Thames, Oxon.

VIDA ROGERS, LTD. (P.C.).—Capital £10,000. To acquire the business of a dispensing and photographic chemist carried on by Vida Rogers, M.P.S., at 3 High Street, Fleur-de-Lys, Pengam, Mon. Directors: Vida Rogers, Beatrice Connick and Horace D. Connick.

FRENCH BEAUTY PRODUCTS, LTD. (P.C.).—Capital £100. To acquire the business carried on as "Kemolite," and to carry on the business of manufacturers of and dealers in powders, ointments, etc. Directors: Nancy K. Ducker, John F. R. Barker and Megan E. Barker. R.O.: 51 Blakes Lane, New Malden, Surrey.

TOLLEY & CO. (MILL HILL), LTD. (P.C.).—Capital £500. To acquire the business of Tolley & Co., now carried on by John E. Burke, M.P.S., at 107 Broadway, Mill Hill, London, N.W.7, and to carry on the business of wholesale and retail chemists, etc. Directors: John E. Burke, Dr. John B. G. Burke and Roderick A. Burke.

EVANS SONS LESCHER & WEBB, LTD. (P.C.).—Capital £100. To acquire and hold shares, debentures and other interests and to carry on the business of manufacturing chemists, etc. Directors: Ian V. L. Fergusson, Harold A. Mason, William A. Kinneir, Charles W. Robinson, M.P.S., Frederick S. Gorrill and Douglas Riding (all directors of Evans Medical Supplies, Ltd.).

GREENWOOD & SON (LYE), LTD. (P.C.).—Capital £10,000. To acquire the business of chemists, druggists and tobacconists, etc., carried on at 136 High Street, Stourbridge, as "Greenwood & Son" and at Lye. Directors: Frank L. Dent, M.P.S., Frank B. Robinson, M.P.S., and Percy J. Perry. R.O.: 205 High Street, Lye, nr. Stourbridge.

Company News

Previous year's figures in parentheses

VITAMINS, LTD.—The issue of 1,037,333 1s. shares at 1s. 9d. each on the basis of one for every three shares held is announced by the company. The directors expect it will be possible to maintain the same dividend on the increased capital as that paid for the year ended March 31.

A. BOAKE, ROBERTS & CO. (HOLDINGS), LTD.—Profit for year ended March 31 is £24,933 (£571,129) after transferring £75,000 (nil) from stock reserve according to preliminary statement. Net profit is £7,298 (£250,563). A dividend of 10 per cent., less tax, is recommended on ordinary capital (17½ per cent.).

RICHARD HUDNUT, LTD.—The following have been appointed directors of foreign operations:— Mr. Frank C. Cleary (British Commonwealth and Far Eastern operations); Mr. Robert H. Gleckner (Latin American operations); and Mr. Paul R. Van Der Stricht (European operations). Mr. David A. Walker (vice-president) is to relinquish that office in the autumn having reached the company's retirement age, but will continue as a consultant on foreign affairs and as a director of the company.

Meeting of Creditors

MR. JOHN FREDERICK ROWLANDS, M.P.S., chemist, Meltham, Yorks.—The first meeting of creditors was held at Bradford on July 8. The debtor's statement of affairs showed a deficiency of £581 19s. 8d., and the causes of failure as "excess cost over estimate of establishing business, and excessive withdrawals for household and personal expenses." Resolutions were passed for the appointment of Mr. Frederick Allen Kaye, Kirkgate Buildings, Huddersfield, chartered accountant, as trustee, together with a committee of inspection.

BUSINESS CHANGES

THE telephone numbers of the Association of British Chemical Manufacturers have been changed to Hyde Park 4126 and 1557. The change also affects the affiliated associations operated by the A.B.C.M.

MR. W. D. WRIGHT and Mrs. J. M. Wright, Ph.C., are occupying the flat above the Dolphin Pharmacy, Ingatestone, Essex (C. & D., July 11, p. 30), but have not taken over the pharmacy. Mr. Alan C. Pollard, M.P.S., continues to conduct the business.

THE wholesale chemist business of Armstrongs (Cambridge), Ltd., 5 Norfolk Street, Cambridge, has been purchased by William Martindale, Wholesale, Ltd., 14 Bruton Place, New Bond Street, London, W.1, and will be taken over on August 1. The business will be conducted from Norfolk Street as Armstrongs of Cambridge (Proprietors, William Martindale, Wholesale, Ltd.).

Appointments

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, have appointed Mr. B. V. Jones, M.R.C.V.S., adviser to their veterinary division.

GOYA, LTD., Badminton Court, Amersham, Bucks, have appointed Mr. M. S. Walsham their representative in Shropshire, Cheshire and North Wales. Mr. G. Willshaw, who was the company's representative in those areas, will now represent them in the eastern part of Lancashire.

CUXSON, GERRARD & CO., LTD., Fountain Lane, Oldbury, Birmingham, have appointed Mr. W. J. Edwards, M.P.S., Shangani, Ringswell Avenue, Exeter, Devon, their representative in the Channel Islands from September 1, in addition to the areas already covered by him for the company in Somerset, Devon, Cornwall, and Wiltshire.

BIRTH

CROOK.—At Matilda Hospital, The Peak, Hong Kong, on July 21, to Gladys, wife of Joseph Crook, M.P.S., c/o Harry Wicking & Co., Ltd., Princes Building, Ice House Street, Hong Kong, a daughter (Janet Clare).

DEATHS

JENKIN.—On July 11, Mr. James Arthur Jenkin, M.P.S., 12 Hurst Road, Winchmore Hill, London, N.21. Mr. Jenkin qualified in 1933.

KAY.—On May 20, Mr. Ellis Kay, M.P.S., 2B Soho Street, Liverpool, 3. Mr. Kay qualified in 1948.

LEWIS.—On May 24, Mr. William Lewis, M.P.S., Medical Hall, Cemaes Bay, Anglesey, aged fifty-eight.

LYALL.—On July 10, Mrs. Margaret Watt Lyall (wife of Mr. Cathel H. Lyall, M.P.S., 6 Lethnot Street, Barnhill, Dundee). Mrs. Lyall qualified as a chemist and druggist in 1933.

MILLER.—On July 2, Mr. Richard Miller, 120 Rawson Road, Seaforth, Liverpool, aged eighty-eight. Mr. Miller qualified as a Chemist and Druggist in 1890.

SLATER.—On July 23, Mr. Ernest Henry Slater, M.P.S., 177 High Street, Epping, Essex, aged eighty. Mr. Slater had been in business in Epping since 1904, seven years after qualifying, and had taken an active interest in local pharmaceutical and other affairs. In 1904 he bought the old-established business of Mr. T. W. Rowland, Epping, and continued it under his own name for many years, later forming the business into a limited company under the name E. H. Slater, Ltd., with Mr. R. D. Stebbings, M.P.S., as co-director. He remained an active director until April when he became ill. He was chairman 1939-52 of the Essex Pharmaceutical Committee of which in 1914 he was among the first members, and was its vice-chairman in 1919-36. He was a member of the Essex Pharmaceutical Service Committee, 1936, and was chairman, 1939-45, of the Essex Pharmaceutical War Committee. Outside pharmacy he had served as chairman of Epping urban district council, and was a founder member and a past president of the Epping Rotary Club. Near to his heart had been the welfare of Epping and District Cottage Hospital of which he served as secretary of the founding committee in 1912, and for many years as honorary radiographer. He remained honorary secretary of the hospital until it was taken over by National Health Service.

Mr. Slater was master of the Boadicea Freemasons' lodge in 1918, was a director of ceremonies since 1943, and was a member of the Chigwell chapel and first Principal in 1926. Before moving to Essex Mr. Slater had served with Mr. W. C. Ford, M.P.S., who was then in Great College Street, London, N.W.1, Parkes Drug Stores and the pharmaceutical department of Jones Bros. (Holloway), Holloway Road, London.

Mr. G. F. Deeth, M.P.S. (secretary, Essex Pharmaceutical Committee), writes: Mr. E. H. Slater was one of the gentlemen of pharmacy. Throughout his life he practised his profession with scrupulous care and transparent honesty. Whether in business or committee he never allowed a questionable transaction; he will be remembered as a model of integrity in every walk of life.

SMILES.—In a nursing home at Tun-

bridge Wells, recently, Mr. Samuel Smiles, O.B.E., D.Sc., F.R.S. (emeritus professor of chemistry, University of London). Dr. Smiles was appointed assistant professor of organic chemistry at University College, London, in 1907. He became the first professor of organic chemistry at Armstrong College, Newcastle, in 1919, and was appointed to the Daniell chair of chemistry at King's College, London, in 1920.

PERSONALITIES

MR. W. P. EWART (vice-president of the Pharmaceutical Society of Northern Ireland), has been appointed a justice of the peace for co. Armagh.

MR. T. D. WHITTET (see p. 115) has been notified by the Academic Registrar, London University, that he has been granted recognition as a teacher of pharmacy at University College Hospital Medical School. He is assigned to the Faculty of Medicine.

MR. F. J. BENGUE (governing director and chairman of Bengue & Co., Ltd.), who was recently elected an honorary fellow of the Royal Institute of Public Health and Hygiene, was presented with his certificate on July 2 by the president (The Rt. Hon. Walter Elliot, C.H.). [Corrected note.]

MR. B. J. THOMAS, M.P.S., D.B.A. (manager, Allen & Hanburys, Ltd., Vere Street, London, W.1), spoke at Cambridge during a post-graduate course for midwife teachers on July 11 on "Drugs from another Point of View." He dealt with sterile powders, injections, sutures, tuberculin dilutions and water-miscible and repellent creams.

Mr. ROBERT A. THOM, the United States artist who painted the "History of Pharmacy" series for Parke, Davis & Co., has just completed a tour of Europe that started in April and has taken him through France, Spain, Majorca, Italy, Austria, Switzerland, Belgium, Holland, Germany, Denmark, Sweden and finally to London. He left there on July 27. Mr. Thom has been doing research for six additional paintings in the series, which so far numbers eighteen. It is expected that the series will be completed by 1956.

MR. FRANK C. CLEARY who has been appointed director of British Commonwealth and Far Eastern operations of Richard Hudnut, Ltd., London (see p. 110) was formerly managing director of the Canadian branch of the company with whom he has had more than twenty-five years' service.

He filled a number of managerial posts for the company in Central America, the Orient, Australia and New York, prior to assuming responsibility for the Canadian subsidiary in 1946. He is a native of Illinois and attended

Georgetown University, Washington, D.C.

MR. WILLIAM J. LACEY, M.P.S., Norwich, recently retired from the local Executive Council. On July 21, Norwich chemists presented him with a portable radio set in appreciation of forty years' voluntary service to pharmacy. Mr. Lacey was secretary of the Norwich Pharmaceutical Committee when it was formed in 1913 and he continued in that capacity until July 1948. From 1912 to 1948 he was a member of the local Insurance Committee (chairman, 1942-48) and a member of the Norwich Executive Council 1948-53. One of Mr. Lacey's services to pharmacy was the compilation, in collaboration with a doctor, of the "Norwich Pharmacopoeia" containing fifty-eight prescriptions which were in extensive local use from 1913 until the 1930's. Mr. Lacey, who qualified in 1898, is a retail pharmacist. He believes that the formation of the National Health Service was a progressive step of direct benefit to chemists.

MR. FRANK HEPBURN, M.P.S., D.B.A., Portobello, Midlothian, who was recently elected chairman of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society is in retail business in Portobello. Mr. Hepburn served his apprenticeship in Edinburgh and qualified as a chemist and druggist in 1931 from the Royal Dispensary School of Pharmacy, Edinburgh. He then had experience in Oxford and London and from 1937 to 1947 was secretary of the South-east Metropolitan Branch of the Society. During the 1939-45 war he served first in the Black Watch regiment and then in the Royal Army Medical Corps and saw service in India. In 1947 he took over his present business and gained the Diploma in Biochemical Analysis in 1948. He was elected in 1950 to the Pharmaceutical General Council (Scotland) and the Pharmaceutical Standing Committee (Scotland). He is at present a member of the executive of the Scottish Pharmaceutical Federation but is not seeking re-election. He was co-opted to the Executive of the Scottish Department of the Pharmaceutical Society early in 1953.



TRADE NOTES

At Royal Show.—J. & D. Hilston, chemists, 1 Wellgate, Lanark, state that they also exhibited a rodenticide at the Royal Show at Blackpool recently—their warfarin-based rodenticide Ratom.

Distribution in Burma.—Manufacturers of medicinal and pharmaceutical products interested in the Burma market are invited to communicate with Ideal Trading House, Ltd., 608 Merchant Street, Rangoon, Burma.

Renamed.—The speciality (formerly called Guanillin) containing streptomycin with sulphaguanidine has been renamed Guanimycin. The manufacturers of Guanimycin are Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

In Britain Again.—The Wigder nail clips are again being imported into this country from the United States. Wholesale inquiries should be sent to Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1.

Hand Cleanser.—Deb Chemical Proprietaries, Ltd., Spencer Road, Belper, Derbys, are the manufacturers of Swarfega hand jelly in a new pack with screw lid which removes the necessity of prising off lids with the fingers or finger nails.

Holiday Closing.—The office and works of Harker Stagg, Ltd., Devon Wharf, Emmott Street, London, E.1, will be closed for general business August 1-8 inclusive. Orders for urgent medical products will be dealt with by a skeleton staff during that period.

Reference Book of Botanical Drugs.—The sixth edition is now ready of Potter's "Cyclopædia of Botanical Drugs and Preparations," published by Potter and Clarke, Ltd., River Road, Barking, Essex.

Works to be Reconstructed.—Following an appeal to the Minister of Housing and Local Government, Pest Control, Ltd., Bourn, Cambridge, have been granted permission to reconstruct their chemical factory at Harston. The

Harston factory produces weedkiller, fungicides, insecticides and other chemicals.

Quantity Discount and Reduced Price.—James A. Jobling & Co., Ltd., Wear Glass Works, Sunderland, have been enabled by factory extensions and increased production facilities to reduce the price of most of their Pyrex brand scientific apparatus, and are now allowing a more generous discount on purchases of one dozen or more items.

Bonus Offers.—Until September 30, CELLUCOTTON PRODUCTS, LTD., Carkers Lane, London, N.W.5, are offering twelve improved Kotex sanitary towels ("stay-soft," with loop ends) for the price of eleven.—An offer by GEORGE JACKSON & SONS, LTD., Elmo Works, Brewery Street, Manchester, 9, of thirteen Jackson's febrifuge to the dozen closes on September 14.

Change of Presentation.—Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have replaced the vials of 10 c.c. Antuitrin solution containing 100 international units per c.c. and vials of 5 c.c. concentrated solution containing 500 international units per c.c. of Antuitrin S, which have been discontinued, by packages containing one vial (2,500 units) Antuitrin S (dry) and one 5-c.c. ampoule injection of sodium chloride for making Antuitrin S solution.

Research Company.—A new organisation: Smith & Nephew Research, Ltd., Hunsdon Laboratories, Ware, Herts, which has been set up by Smith & Nephew Associated Companies, Ltd., Hull, is now operating. The organisation has been set up to intensify the research work already carried out by the group in the field of adhesive and surgical dressings, chemotherapy, and sanitary protection. It incorporates as its nucleus the research and development unit of Herts Pharmaceuticals, Ltd., and has four divisions: Technological, biological, analytical research, and chemical. The range of technical information available to users of the group's products is also being extended.

Photographs on Everest.—Kodak, Ltd., Wealdstone, Harrow, Middlesex, state that colour film was used exclusively for all photographs taken above 27,000 ft. on the Everest climb. Pictures taken during the final assault were on Kodachrome 35-mm. miniature-picture film, daylight type. Black-and-white enlargements of considerable size can be successfully made from the small colour transparencies, size 24 mm. x 36 mm., produced with that film. Kodak Wratten 1A light-filters were used, in order to reduce the effect of the intense ultra-violet light at extreme heights. During the final assault only Kodak Retina and Retinette cameras were used, the personal property of the climbers.

Handbook on Cortisone.—Available throughout world, a handbook on Cortone (the Merck brand of cortisone) has been published by Merck (North America) Inc., 161 Avenue of the Americas, New York, 13, N.Y., U.S.A. The handbook has been prepared in five languages (English, Spanish, Portuguese, French and Italian), and contains 126 pages of text, thirty pages of illustrations and an index. It is available free to pharmacists and doctors on request to the company. Entitled "Cortone, a Handbook of Therapy," it presents concisely information on the treatment of diseases in which Cortone is indicated. Its three sections deal in turn with therapeutic measures; a clinical review of the diseases in which Cortone and Hydrocortone (the Merck brand of hydrocortisone) are used; and the research and development that preceded the large-scale production of Cortone and Hydrocortone.

Canadian Agencies.—A directory giving a list of channels of distribution in Canada of the products of British manufacturers has been published for the Canadian Association of Manufacturers and Agencies (CABMA), by Kelly's Directories, Ltd., 186 Strand, London, W.C.2, and Iliffe & Sons, Ltd., Dorset House, Stamford Street, London, S.E.1. The



REPRESENTATIVES' CONFERENCE: Mr. A. R. G. Chamings, B.Pharm., Ph.C., with members of the representative staff of Ciba Laboratories, Ltd., Horsham, Sussex, and area supervisors and some members of the inside sales staff. The occasion was a conference week during which representatives joined the works staff on their annual outing (a journey by rail to Southampton followed by a steamer trip down Southampton Water and a visit to the Ocean Terminal at Southampton Docks). On the Thursday afternoon of the conference week the representatives visited the Queen Victoria Hospital, East Grinstead, where they were entertained by the hospital staff.

directory is an 800-p. volume in six sections. It has been produced in collaboration with the Dollar-Sterling Trade Council in Canada, and the Dollar Exports Council, Federation of British Industries, Association of British Chambers of Commerce, National Union of Manufacturers, Scottish Council (Development and Industry), and Northern Ireland Industries Council in the United Kingdom. The price is 42s. (by post 44s.).

New Method of Sealing Parcels.—A new method of sealing parcels up to 15 lb. in weight, evolved by the Sellotape division of Gordon & Gotch, Ltd., 83 Farringdon Street, London, E.C.4, has been given the title "Safety Save." It is claimed to have reduced material costs by amounts varying from 98 per cent. to 33½ per cent., and labour time by anything from one-half to one-quarter. The method uses a minimum amount of Sellotape, affixed at vital points on the wrapping. The secret lies in the folding of the kraft paper. In a nation-wide test, in which twelve companies in different parts of Britain co-operated with the manufacturers, goods insured to the value of £300,000 were packed by the company's own staffs using "safety

save," and were dispatched by parcel post or carrier. There were only two claims, totalling £4. The General Post Office admitted liability for one. Examination of the other parcel showed that the paper had burst but the Sellotape seals were intact.

In Commercial Production.—Propyl gallate, which was originated and developed in this country by Nipa Laboratories, Ltd., Cardiff, is now being produced on a commercial scale in both pure and technical grades. It is marketed under the registered trade name of Progallin P. The antioxidant is already widely used for the protection of edible fats and oils from autoxidation in the United States, Canada, Norway and Sweden. Adequate stocks are available from P. Samuelson & Co., 1 Crutched Friars, London, E.C.3. The official report on "Antioxidants" of the Food Standards Committee, recently published, recommended that propyl gallate and butylated hydroxy anisole should be officially approved as antioxidants for edible fats and oils and essential oils. Until the Regulations are modified no goods containing antioxidants should be marketed, but trials can be made to measure the increase in the shelf life of products

containing Progallin P. Details and samples are available.

Irish-grown Herbs.—An agreement has been reached between Stafford Allen & Sons, Ltd., London, and Christopher O'Connor & Co., Dublin, whereby Messrs. Stafford Allen are to provide all technical assistance and equipment necessary to the Irish company in the growing and processing of their herbs, and later to market all the extracts and oils produced from the Irish crops. Mr. Christopher O'Connor, Ph.C. (professor of botany and materia medica, College of Pharmacy, Dublin), is managing director of the Irish company, whose farm was described in the *C. & D.*, 1951. II. 222. If the appraisal is good of spearmint and peppermint oils distilled from crops grown from seed flown over in the spring from plantations at Kalamazoo, U.S.A., the company will produce the oils on a big scale in 1954. Pharmacists on the board of the Irish company include Messrs. P. F. McGrath (chairman), P. A. Brady, T.D., and J. K. Whelehan. A circular offering £10 debentures to all pharmacists in the Irish Republic and inviting them to take shares in the company was recently issued.

NEW PRODUCTS AND PACKS

Frangula with Vitamins.—S. West, Ltd., 2 Exchange Buildings, Rutland Street, Leicester, are marketing a new speciality, Videnal tablets, described as "a frangula tablet formula to which has been added vitamins." Videnal is issued in containers of forty and 250 tablets.

Violet Oatmeal Beauty Series.—A new series of violet oatmeal beauty products prepared by Rimmel (Distributors), Ltd., 70 Park Lane, London, W.1, are described as, in effect, by-products of the original formula

devised over a century ago by Eugene Rimmel. For the first time it provides a complete oatmeal beauty series. The series is illustrated below.

A New Antispasmodic.—Wyovin tablets, introduced by John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1, contain 10 mgm. dicyclamine hydrochloride (β diethylaminoethyl-1-cyclohexyl cyclo hexane carboxylate hydrochloride). The tablets are intended as an adjuvant in the treatment of peptic ulcer and similar conditions and are issued in bottles of 50 and 250.

Diabetic Bread in New Pack.—Procea Products, Ltd., 47 Dean Street, London, W.1, are now packing their Procea diabetic bread in attractive cardboard cartons, printed in the company's colours of yellow and blue. Each pack is dated and carries a fourteen days' guarantee as to the condition of the loaf. A feature is that the bread is "fluted" and divided in twenty-one slices, marked by ridges that enable the user to take a predetermined weight.

An Antihistamine and an Antipruritic.—Pharmaceutical Laboratories Geigy, Ltd., Rhodes, Middleton, Manchester, are marketing two new specialities: Synopen (N-dimethyl-aminoethyl - N-p-chlorobenzyl - α -aminopyridine hydrochloride), an antihistamine issued in containers of twenty, 100 and 200 25-mgm. tablets; and Eurax ointment (10 per cent. crotonyl-N-ether-otoluidide in odourless, non-greasy base), an agent for the symptomatic relief of pruritus. Eurax is issued in 2-oz., 4-oz. and 16-oz. jars.

Available Shortly.—Allen & Hanburys, Ltd., Bethnal Green, London, E.1, and The British Drug Houses, Ltd., Graham Street, London, N.1, make a preliminary announcement of the introduction of I.Z.S. insulin zinc suspension A.B., which will enable satisfactory control of the blood-sugar level to be achieved in about 90 per cent. of diabetics by one injection daily. I.Z.S., 40 or 80 units per c.c., will be issued in a 10-c.c. vial. Also introduced are the quick-acting insulin zinc suspension (amorphous) A.B. and the longer-acting insulin zinc suspension (crystalline) A.B., both at a concentration of 40 units per c.c., in 10-c.c. vials.



ELECTRONICS IN MEDICINE

Exhibition at Manchester

THE eighth annual exhibition of electronic equipment organised by the North-western Branch of the Institute of Electronics and held at the College of Technology, Manchester, July 15-21, was a record both in attendance figures and in the number and variety of exhibits. Over 10,000 visitors saw the electronic apparatus shown on the forty-five stands. There was a programme of lectures by specialists in various aspects of the subject, and a continuous demonstration of research exhibits and scientific films. Emphasis was on the application of electronics to medicine and physiological research, and a number of hospitals and medical research centres showed results of recent work on radioactive isotopes, both in their production and measurement. The following were among the exhibits:—

A method was demonstrated of showing a visual image of the distribution of radioactive material in patients that had been developed by the Institute of Cancer Research, Royal Cancer Hospital, London, making use of a television scanning system and an E.M.I. "storage camera." A scanning head containing a crystal of sodium iodide is mounted on a large mechanical pantograph and driven over the selected area of the patient in a series of parallel lines, the whole operation taking about six minutes. Synchronising with this scanning movement, an electron beam scans the sensitive surface of the camera tube, which is supplied with impulses corresponding to the radiation pulses picked up from the patient. The scanning beam thus reproduces the radiation pattern in light and dark patches on the camera, and this pattern is seen as a visual image on an ordinary television screen, reproduced as a 300-line, forty-frames-per-second picture. The image persists on the camera screen and may be read over a period of minutes up to an hour without serious deterioration.

The Radiochemical Centre, Amersham, displayed a number of products in which the radioactive isotope is bonded within metallic silver, so that it cannot be released accidentally.

The Heart-Lung Machine

Outstanding among the research apparatus was an extra-corporeal heart and lung equipment (*C. & D.*, July 18, p. 62, and (picture) July 25, p. 73) designed by the University of London Postgraduate Medical School in conjunction with the English Electric Co., Ltd., and Universal Electronics, Ltd.

Among the items of research equipment was a flying-spot microscope developed by Cinema-Television, Ltd., in collaboration with Prof. J. Z. Young. The object is scanned by a high intensity cathode-ray tube through the conventional microscope and the illuminated image is picked up by a photo-cell and suitably displayed on a fluorescent screen. The advantages claimed for that type of illumination and projection include the ability

to enlarge the projected picture to a size 20 by 16 ft., with controllable contrasts. The resolution (0.254 micron) is equal to that of the conventional microscope; the use of a flat-face cathode ray tube for reproduction enables accurate tracings to be made easily. The magnification of the instrument is up to 8,000 times.

Among an extensive range of medical equipment shown by Marconi Instruments, Ltd., was a diagnostic x-ray apparatus for radiographic and fluoroscopic techniques. It is supplied with electronic timer, motor-driven tilting table, vertical Bucky stand and other accessories. The deep-therapy apparatus manufactured by the same company has a röntgen output at 250 kV and 15 mA of 90r per minute in air with a half-value layer of 1.5 mm. copper.

A range of bactericidal ultra-violet radiation lamps was demonstrated by Hanovia, Ltd., including low wattage tubes with filters for sterilising cabinets used in vial filling.

During the Exhibition nineteen lectures on medical topics were delivered at levels ranging from general survey to advanced treatment of the subject. Among the titles were "Detection of Radioactive Isotopes" and "Electronics in Medicine" and others indicating the range of medical interests represented at the exhibition.

In a lecture on electronics applied to medicine, Mr. G. Parr (a former Editor of *Electronic Engineering*) mentioned the x-ray tube as the first electronic device used for diagnosis and showed the advances made in x-ray

technique by comparing the length of exposure required in Röntgen's day with the modern short exposures for x-ray cinematography. The x-ray tube was still a comparatively inefficient device, as 99 per cent. of the energy was wasted in heat, but other methods of producing x-radiation were being developed with success.

The basis of nearly all the electronic apparatus for research and diagnosis was the high gain amplifier, which enabled small electrical potentials to be recorded on an oscillograph or pen recorder. Amplifiers for biological work had to be reliable and free from distortion, as in many cases the alteration of a waveform passing through the amplifier might give misleading results or even lead to wrong diagnosis. An example of that was found in the electrocardiograph, where the change in wave shape was indicative of cardiac changes. It was most important that the medical profession should be able to rely on electronic equipment.

Some of the best examples of electronic circuit design applied to research was found in the electroencephalograph, in which electrical potentials from as many as eight points on the scalp could be displayed simultaneously, recorded on paper with a timing scale, and automatically analysed to give the harmonic content of the waveform while it was being recorded. The use of that apparatus had led to a more complete understanding of the brain and the nervous system, and it was now accepted as an aid to the older established methods of diagnosis of brain injury.

PHARMACY EXHIBITS AT CARDIFF

THE exhibition, organised by the museum department of the Pharmaceutical Society, held in conjunction with the annual meeting of the British Medical Association in Cardiff, July 14-17 (see *C. & D.*, July 11, p. 26), consisted of pharmaceutical apparatus and literature arranged to show aspects of the development of British medical practice.

Drug Jars

A case of Lambeth Delft drug jars, ointment pots and other ware from the Society's collection and from the collection of Mr. W. H. Hampton was the main feature of a section devoted to containers. The centre piece of the Lambeth exhibit was a pill tile bearing the arms of the Society of Apothecaries. Eighteenth century Italian drug jars (including one in polychrome) were exhibited in a separate case. Copies of the formulas of the preparations upon the labels of the drug jars were presented. A display of apparatus included sets of nested weights, a portable balance including a receptacle for weighing liquids, eighteenth century feeding cups, nineteenth century feeding bottles, seventeenth century brass mortars and three medicine cabinets (two early nineteenth century apothecaries' and one ship's sur-

geon's of the same period). The cabinets hold a range of drugs (ipecacuanha, rhubarb, cinchona, jalap, ginger), inorganic chemicals (magnesia, calomel) and galenicals (tinctures of rhubarb, senna, cinchona, opium; blue pill, blistering plaster) and dispensing apparatus including scales, etc.

A display of books published at different times from 1497 to the present day illustrated the evolution of pharmaceutical literature.

In a "documents" section a series of charts presented a chronology of events and persons in English pharmacy from the "Leech Book of Bald" (Saxon, 950 A.D.) up to the foundation of the Pharmaceutical Society of Great Britain. Photostat copies of documents shown included the "Charter of the Pharmaceutical Society of Great Britain" (1843), to demonstrate the legal rights and responsibilities of persons handling drugs. Photostat copies of the formulations of Egyptian ointment showed its continued use from the "Papyrus Ebers" (1500 B.C.), a fifteenth century A.D. "Leech Book," and in each edition of the "Pharmacopœia Londinensis." A series of photographs showed early pharmacies of London and of the provinces, and modern retail and hospital pharmacies.

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CHESTER. Populated area just outside city centre. Drug store (proprietary medicines, cosmetics, etc.) with scope for dispensary. Goodwill, together with freehold main thoroughfare shop and living accommodation, also furnishings (could be excluded), £2,500 with stock at valuation. Swettenham, Whitehouse & Co., 5 St. Werburgh St., Chester; tele. 20422 (ref. 2524). C 4101

DUNDEE, ANGUS. For sale, owing to death of proprietor, good family and dispensing business with excellent scope for increase. Stock, fittings and goodwill at valuation figure, approximately £1,700. Property also for sale. Box C 5719.

APPOINTMENTS

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BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS (478 Beds)

SENIOR PHARMACIST required at this busy hospital. Pleasant environment. Whitley salary plus London Weighting. Applications stating age, qualifications and names of two referees to the Hospital Secretary. C 5693

BOSTON COMBINED HOSPITALS (322 beds)

PHARMACIST required. All types of Hospitals served. Nationally negotiated conditions and salary. Apply, stating age, qualifications, details of previous appointments held (if any) and names of two referees to the Hospital Secretary, Boston General Hospital, South End, Boston, Lincs. C 5777

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

LOCUM CHIEF PHARMACIST required immediately. Salary 15 gns. per week. Apply with full particulars and copy testimonials to the Secretary, H.M.C. Forest Group, Langthorne Rd., E.11. C 5771

CRUMPSALL HOSPITAL, MANCHESTER, 8 (Adult General, 1,225 Beds)

Vacancies exist for two Pharmacists and applications are invited for these posts. Salary and conditions of service as laid down by the Whitley Council. Applications, stating age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible. Dept. "C.D." A. T. SAMPSON, Group Secretary. C 161

GOODMAYES HOSPITAL, BARLEY LANE, GOODMAYES, ILFORD, ESSEX

Applications are invited for the post of Assistant in Dispensing. Salary, aged 22 and over, £320 x £10—£340 x £15—£415 per annum, plus £20-£30 London weighting according to age for 39-hour week.

The duties will consist substantially of the preparation and compounding of therapeutic agents and the execution of prescriptions, and such other work as required.

Applications, giving names of two referees, should be sent to the Secretary of the Hospital immediately. C 5778

HACKNEY GROUP HOSPITAL MANAGEMENT COMMITTEE, LONDON, E.9

PHARMACIST required for Hackney Hospital, Whitley Council salary and conditions. Applications to Secretary, Hackney Group Hospital Management Committee, London, E.9. C 156

HACKNEY HOSPITAL, LONDON, E.9

DISPENSING ASSISTANT required for Hackney Hospital, London, E.9. Whitley Council salary, scale and conditions. Apply Group Secretary at above address. C 5759

HACKNEY HOSPITAL, LONDON, E.9

LOCUM PHARMACIST required for Hackney Hospital, London, E.9, for indefinite period. £12 12s. p.w. or according to experience. Apply Group Secretary at above address. C 5758

HAYMEADS HOSPITAL, BISHOP'S STORTFORD, HERTFORDSHIRE (369 occupied beds)

LOCUM CHIEF PHARMACIST (male or female) required for three or four weeks in August, September or October. Resident accommodation could be provided. Applications, stating age, salary required, qualifications, experience and when available to be sent to the Hospital Secretary. C 5770

THE LONDON HOSPITAL, WHITECHAPEL, E.1

has vacancy for pharmacist. Applicants must be registered pharmacists and salary scale will be £450 (age 23) x £25—£575 according to previous experience and service. Dining room facilities available. Write Secretary. C 5761

ILFORD AND BARKING GROUP HOSPITAL MANAGEMENT COMMITTEE

LOCUM PHARMACIST

Applications are invited from Pharmacists for a Locum post at King George Hospital, Eastern Avenue, Ilford, for the period September 5-19, salary 14 guineas per week.

Applications, together with details of previous appointments, should be sent to the undersigned as soon as possible.

G. AUSTIN HEFORTH, Secreary,
King George Hospital, Ilford.
C 5753

LEYBOURNE GRANGE COLONY FOR MENTAL DEFECTIVES, WEST MALLING, KENT

DISPENSER required at Leybourne Grange Colony for Mental Defectives, West Malling, Kent. Salary £335 x £10—£340 x £15—£430 per annum. Whitley Council conditions of service. Applicants must hold Certificate of Apothecaries of London or other equivalent qualification.

Applications, with full details as to age, qualifications and experience, including present post and salary, together with names and addresses of two referees, to Group Secretary, by August 10, 1953. C 5775

PARKSIDE HOSPITAL (MENTAL), MACCLESFIELD, CHESHIRE

REGISTERED PHARMACIST required, not under 23, to work under Chief Pharmacist. Salary £450 rising by £25 to £575 per annum. Applications to be sent to the Medical Superintendent, giving details of age, experience and qualifications, together with the names of three persons to whom reference can be made. C 5762

ST. GEORGE'S HOSPITAL, S.W.1

Applications are invited for the post of Pharmacist at above Teaching Hospital. Salary in accordance with the Pharmaceutical Whitley Scale. Applications with full particulars to Chief Pharmacist. C 5773

ST. MARY ABBOTS HOSPITAL, MARLOES ROAD, KENSINGTON, W.8

LOCUM TENENS Apothecaries Hall Assistant required for period Aug. 17-29. Salary £8 8s. per week. Telephone for interview—Western 8201, Ext. 8. (C.D. 132). C 5757

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Appointments—Continued

ST. NICHOLAS HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of CHIEF PHARMACIST at St. Nicholas Hospital, Gosforth, Newcastle-on-Tyne, 3. Salary £625 x £25—£725. Conditions of service will be in accordance with the agreements reached by the Pharmaceutical Whitley Council. The appointment is subject to the National Health Service (Superannuation) Regulations. Applications stating age, full details of experience, together with the names and addresses of three referees, to be addressed to the Physician Superintendent.

G. E. FORD,
Secretary.
C 5740

STOKE-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE, CITY GENERAL HOSPITAL, STOKE-ON-TRENT

Applications are invited for the post of Assistant in Dispensing. Salary in accordance with National Scales. Applications giving full details, including qualifications and experience, to the Secretary at the Hospital. C 5772

THE UNITED NEWCASTLE- UPON-TYNE HOSPITALS ROYAL VICTORIA INFIRMARY DEPUTY CHIEF PHARMACIST (Category V)

Applications are invited for the appointment of Deputy Chief Pharmacist in the United Newcastle-upon-Tyne Hospitals. Salary and conditions of service as laid down by the Pharmaceutical Whitley Council. Applications, stating age, qualifications and experience, together with the names of three referees, should be forwarded as soon as possible to the House Governor & Secretary, Royal Victoria Infirmary, Newcastle-upon-Tyne. C 5776

WEST LONDON HOSPITAL, HAMMERSMITH ROAD, LONDON, W.6

Applications invited for the appointment of PHARMACIST (MALE OR FEMALE) at the above general teaching hospital, where there is a busy Pharmaceutical Department and a wide variety of experience is offered. Salary scale £450-£575 per annum, plus London Weighting. Other terms and conditions in accordance with the Pharmaceutical Whitley Council. Age, qualifications, experience, names two referees to Secretary. C 5763

WORTHING GROUP HOSPITAL MANAGEMENT COMMITTEE WORTHING HOSPITAL, LYNDHURST ROAD, WORTHING

Applications are invited for the post of Chief Pharmacist. Salary £680 x £25 to £780. Applications stating full particulars, together with two referees or the names of persons to whom reference may be made, to be submitted to the Hospital Secretary.

A. V. OAKTON,
Group Secretary,
C 5755

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COVENTRY. Pharmacist required (male or female) for central pharmacy. Congenial position. Adequate staff support. No rota. Sunday or half-day duties. 44-hour week. Superannuation scheme in operation. Salary £15 per week with bonus paid half-yearly. Apply with full particulars stating age, experience, etc., to Superintendent Chemist, Loekhurst Lane Co-operative Society, Ltd., 376 Foleshill Road, Coventry. C 4104

HOUNSLOW. An experienced pharmacist is required to manage a substantial business in this area. The salary to be paid will be commensurate with the duties involved and there is a good supporting staff. Unfurnished accommodation with garage can be provided if desired. Application in first instance to Box C 4118.

LADY OR GENTLEMAN required as unqualified dispenser, able to assist at counter occasionally. Excellent working conditions in a pleasant pharmacy. Good salary. F. T. De-Pearce, 14 Highbury Park, London, N.5. Phone: Canonbury 2666. C 4027

LONDON CO-OPERATIVE CHEMISTS, LTD., require in the western suburbs the services of two experienced dispensing assistants accustomed to quantity N.H.S. prescriptions (under qualified supervision). The salary and commission payable are commensurate with the duties involved. Applications to Superintendent Chemist, Grange Rd., Leyton, London, E.10. C 4121

MAIDSTONE, KENT. Qualified assistant required mainly for dispensing. Permanent and congenial post with superannuation scheme. Regret no living accommodation. Stonham, 70 Bank St., Maidstone. C 4111

MIDDLESEX. Applications are invited from pharmacists to take over the management of a congenial business in a western area London suburb. The salary would be substantial for the responsibilities involved. Application in first instance to Box C 4119.

NORTH-WEST LONDON. Vacancies exist for experienced toilet assistants in modern, good-class pharmaceutical branches situated in this area. Good salary and prospects. Applications to Superintendent Chemist, Grange Rd., Leyton, London, E.10. C 4122

OPPORTUNITY for young well-experienced pharmacist to manage and control middle-class pharmacy near Ilford, main road position. Adequate staff. Capable of further expansion under energetic direction. Salary £936 per annum plus share of profits to enthusiastic man with progressive ideas. Box C 4125.

OXFORD & District Co-operative Chemists, Ltd., require a pharmacist (lady or gentleman) as branch manager. Pleasant, easily worked shop with adequate supporting staff. Permanency and superannuation benefits. Apply: Superintendent Chemist, 188 Cowley Rd., Oxford. C 4110

PHARMACIST to manage new shop in N.W.1. Able to control staff. Living accommodation available if required. Salary £850 with excellent prospects for right man to increase Telephone Welbeck 8365, 9 a.m.—6 p.m. C 4124

QUALIFIED LADY required mainly for dispensing duties in a pleasant, well managed, main road pharmacy near Finsbury Park. Good salary and working conditions. S. Phillips Iles, 30 Highbury Park, London, N.5. Phone: Canonbury 1960 C 4026

STAMFORD. Pharmacist required to manage new main road branch. Salary, including bonus and rota fees, £800 per annum to commence. Very attractive self-contained flat with garden available at a reasonable rent. This is a permanency with excellent conditions of employment, including 44-hour week and superannuation. Apply, giving usual details, to Peterborough Co-operative Chemists, Ltd., Park Rd., Peterborough, Northants. C 4112

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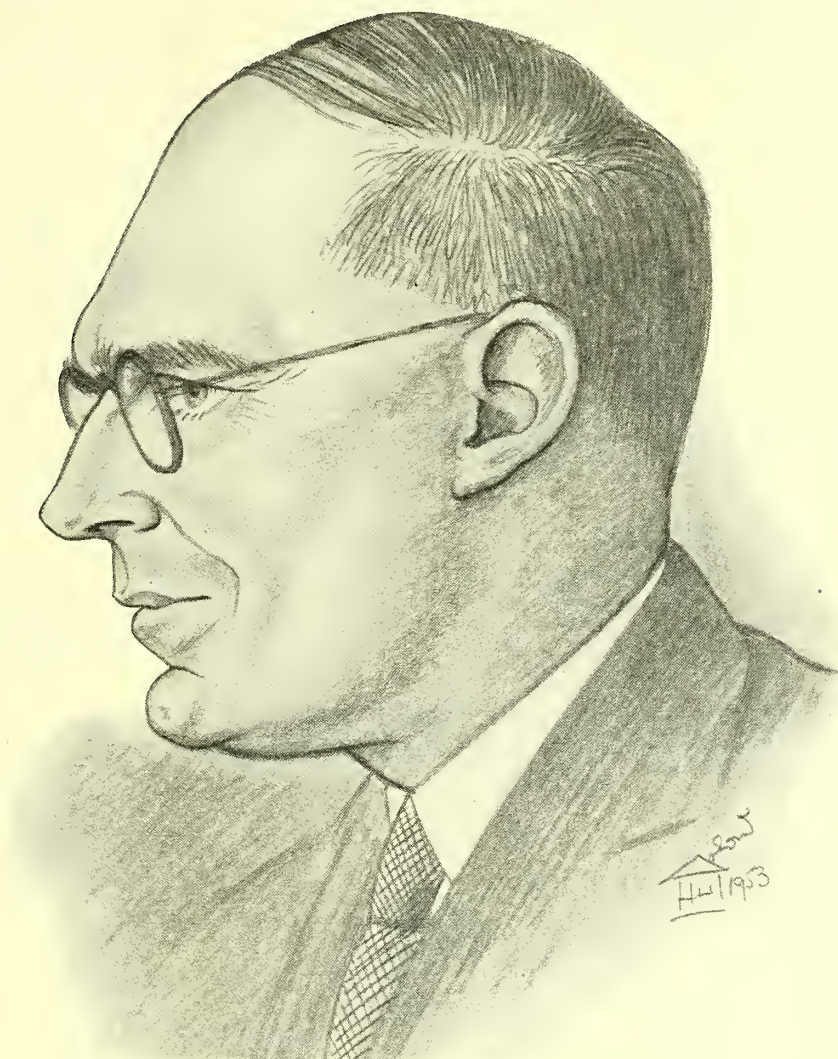
FIGURES IN THE PHARMACEUTICAL WORLD

IF there had been no industrial depression in the 'Thirties, the Chief Pharmacist at University College Hospital, London, today might have been "walking the wards" as a medical man. His boyish ambition lay in medicine, but the North-East was hard hit by the slump, and its effect on his father's timber business dictated a pharmaceutical training as one imposing less strain on the family's resources.

In the long run, as Mr. Whittet somewhat wryly points out, success in pharmacy may have proved not much less expensive; however, he was duly indentured for four years at the pharmacy of W. O. Richardson, West Hartlepool. A peculiarity of the business was that "shipping orders" were no fiction but a reality. When an indent came in from a ship in port everything else had to take second place to making up the order and carrying the drugs down to the docks, usually in Mr. Richardson's car. The apprenticeship was a pleasant experience, with plenty of good-class dispensing. There was part-time study for Part I at Sunderland Technical College, and later a full-time course leading to the passing of the Chemist and Druggist Qualifying examination in 1937 and of the Ph.C. examination the next year. No doubt the apprenticeship seems doubly pleasant in retrospect for it was during it that Mr. Whittet met his wife: Miss Doreen Bowes, a niece of the proprietor.

His first post after qualifying was in manufacturing and wholesaling (with Numol, Ltd., Newcastle-on-Tyne). His duties as Chief Chemist there were widely interpreted, covering assay, production and new-product research. But Whittet's hopes were in hospital pharmacy and eventually he secured a post at Chesterfield Hospital as assistant to Mr. W. Swallow. So strong was his purpose that he went at a severe drop in salary, but it was not many months before his remuneration was at a level to remove any temptation to return to a commercial post.

While at Chesterfield, Whittet made his first contributions to research, collaborating with W. Swallow in papers on cellulose derivatives and on hypochlorite solutions. While at Chesterfield, too, he gained his Diploma in Biochemical Analysis. Eighteen months later he was taking on heavier and pioneer duties at Baguley Emergency Hospital and Sanatorium, Manchester, where he had the task of building up a pharmacy department from scratch in an institution that had never previously employed a pharmacist. In 1943 there came an opportunity to go south as Chief Pharmacist, Charing Cross Hospital, London—a chance too near his goal to be sacrificed. At Charing Cross his pioneer work at Baguley stood him in good stead. He transformed an undeniably antiquated department, introducing facilities for sterilisation, for manufacture, etc. In doing so he secured for the Chief Pharmacist a new prestige, and before long he was, by invitation, dining with the Hospital medical staff. While at Charing Cross, Whittet gained his Fel-



8. Mr. T. D. WHITTET

lowship of the Royal Society of Medicine. In 1947, when Dr. H. Davis left University College Hospital to join the Ministry of Health as Chief Pharmacist, Whittet applied for the vacancy and, though not a degree man, secured it by unanimous decision of the selectors against several high-standing applicants.

In his academic development he was all the time diligently going forward. He had already, at Charing Cross, started work on the Special Entrance examination in preparation for a London University degree. Commencing on a degree was one of the hardest tasks he had hitherto had to tackle, because it meant intensive study occupying practically all his spare time, but he persevered and was successful (in December 1947), going on to take Intermediate the following year and to gain B.Sc. in subsidiary chemistry in 1951, his A.R.I.C. about the same time.

A year later he took Special Honours in physiology. He had become an examiner of the Pharmaceutical Society in 1947, and it was a

curious and amusing feature of his studies in physiology that at luncheon he was often seated beside the Professor at whose feet he had sat as student only an hour or so earlier. When, too, he sat for his degree, the Professor of Physiology who examined him was his colleague and equal in examining students for the Pharmaceutical Society's examinations a few days later.

Today, Mr. Whittet is a member of the Sterile Solutions Committee of the British Pharmacopœia, and of the Action and Uses and Pharmacy Committees of the British Pharmaceutical Codex. He represents the Society on the Hospitals Committee of the British Standards Institution, and is at present standing down (as prescribed) after three years on the British Pharmaceutical Conference Executive. For two years he edited the organ of the Guild of Public Pharmacists, and his literary skill has recently been most amply demonstrated in the "History of Pharmacy at University College Hospital" that has been serialised in these columns.

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The New Code Takes Effect

UNDER the title "Statement upon Matters of Professional Conduct (Revised July 1953)," the Pharmaceutical Society's Council has circulated a statement embodying the amendments carried at the Branch Representatives' meeting on May 13.

The differences from the draft as put before that meeting are located in the preamble and in Clauses 5, 7 and 8. The preamble is made to apply, wherever appropriate, quite specifically to authorised sellers of poisons as well as to pharmacists, and now reads:—

Where indicated by the context the Statement applies to "authorised sellers of poisons" as well as to pharmacists. The term "premises," "pharmacy" or "establishment" in the Statement means any set of premises registered under Section 12 of the Pharmacy and Poisons Act, 1933, or any place where a pharmacist is responsible for or engaged in the preparation or dispensing of medicines, provided that in the case of a business of an "authorised seller of poisons" the term applies only to the department or departments in which the preparation, dispensing, or sale of medicines is carried on or where medical or surgical appliances or allied products, of a kind commonly associated with the sale of medicines, are sold.

In Clause 5 the inclusion of the words "offered to or" makes it an offence for both parties to the transaction if a pharmacist is engaged as sole pharmacist in any set of premises but unable or not required to perform the full duties of such a position.

Clause 7 has to do with the advertising of dispensing services and was the one that aroused the most widespread comment by the Branch Representatives in May. In its present and final form it reads:—

The dispensing of medicines should not be advertised. This applies not only to direct references to dispensing, but also to the use of general terms such as "pharmaceutical services" and the term "dispensing chemist," provided that the term "dispensing chemist" may be used simply as a personal description on the fascia or other appropriate position on a pharmacy, on labels or business stationery, in telephone and other directories, or in other similar circumstances (that is to say, in a manner which is not normally regarded as advertising) or in a Press announcement in association only with wording which would normally appear on a professional or business visiting card. Similarly a notice stating that dispensing under the National Health Service is carried on there may be exhibited at any premises.

The only other change is that "a pharmaceutical organisation agreed upon by local pharmacists" is substituted for "a local official body."

By giving effect to the changes the Council has fully met the demands of the majority present at the Branch Representatives' meeting at which the Draft Statement was one of the two principal items on the agenda, and has brought to an agreed conclusion one of the most

successful interchanges of free discussion between the leaders and rank-and-file of the profession since the Society was founded. The "code" gains in authority by that process, and should stand without further modification—barring unforeseen events—for at least a decade.

Drug Resistance Problems

A SUGGESTION in the report of the Medical Research Committee (p. 106) that the development of bacterial resistance to drugs could be dealt with if the occasionally observed reverse "mutations" in staphylococci from a penicillin-resistant to the normal penicillin-sensitive state could be accelerated artificially, may contain the hope of eventual victory in a problem of increasing urgency in the administration of antibiotics. Although staphylococci are the only bacteria found in naturally occurring infections that appear to acquire penicillin resistance readily, resistant strains are becoming increasingly common particularly in large hospitals and in healthy human carriers. With streptomycin the position is even worse, and strains have been known that have grown even to need that antibiotic as a growth factor. In other words the antibiotic becomes, instead of an inhibitor of bacterial multiplication, a stimulant to bacterial development. Animals infected with streptomycin-requiring bacteria may be made worse in health by giving streptomycin, and one case is on record in which a human patient was ultimately saved only by withdrawing the drug. Such extreme cases of drug acclimatisation by bacteria are "extremely rare," but if they are to remain so then the indiscriminate use of antibiotics, and particularly the "preventive" dosing of healthy persons is to be discouraged. The problem of resistance is made lighter by the existence of other antibiotics to which penicillin- or streptomycin-resistant bacteria are sensitive, though resistance even to those alternatives is reported. As the most important practical advance so far has been the use of streptomycin with *p*-aminosalicylic acid (PAS) in tuberculosis, where the action of PAS has been chiefly that of suppressing the development of streptomycin resistance, the probability is that the value of future antibacterial drugs will be judged by their ability to prevent the development of resistance by bacteria to other drugs.

Libraries' Services to Industry

CONGRATULATIONS are due to the organisers of the international congress on medical librarianship recently held in London (p. 105) for appreciating the need for such a meeting and planning it so successfully. From the pharmaceutical aspect it focused attention on an "Unlisted Drugs" library service operated voluntarily by a number of manufacturers in America and designed to bridge the gap in the history of a new compound of potential medical application between the time when it emerges—known, perhaps, solely by the manufacturer's code number—to the time when it is given a generally recognised name. Of comparatively recent origin, the service consists of the dispatch monthly of details of "unlisted drugs" as abstracted from scientific American and other journals with notes on the manufacturer, action, dosage, etc. The service is international in so far as companies outside the U.S.A. co-operate, and the list is sent anywhere in the world on payment of a small subscription. British manufacturers could well co-operate in that scheme, or in a similar one

worked in conjunction with it in this country. For example, British medical librarians have built up a useful scheme for the exchange of surplus medical and related journals. The scheme operates throughout the world, and has helped to raise the prestige of British medical librarianship. It has much in common with a journal exchange scheme that started in America in 1898 and that in fact formed the nucleus from which the Medical Library Association of America has grown. The British organisation is operated voluntarily by the Exchange Manager, Medical Section of the Library Association, at The Wellcome Foundation, 183 Euston Road, London, N.W.1. Its services are available to any library whose officers are members of that association.

Army Medical Shortcomings

IN so far as they may be indicative of a wrong state of mind on the part of the authorities, defects in the system of medical examination for recruits to the fighting services (recently the subject of questions in Parliament) should prompt pharmacists to a renewed offensive aimed at raising the status of their colleagues in uniform.

It is understood that the Opposition in the House of Commons was expecting to be told by the Government on July 29 whether the medical services in the Army have been weakened by the reluctance of doctors to take regular appointments in them, and by the consequent necessity to rely on young doctors called up for military service but without experience in medicine. The result of failing to give proper financial recognition to doctors has been, as events appear to have shown, to let the public down by passing medically unfit persons as fit. The results of failing to give proper recognition to uniformed pharmacists, and at the same time to entrust pharmaceutical responsibilities to non-pharmacists, is to let the public down by depriving those who wear military uniform from the standard of pharmaceutical services they would receive as civilians under the National Health Service.

While improvements are under consideration to prevent any repetition of alleged incorrect medical gradings, the occasion is clearly opportune to press once again for long-overdue reforms in the Army's pharmaceutical arrangements.

Onward from Galen

A CURRENT CAUSERIE

THE element of conservatism in the prescribing of some doctors is well shown by the numbers of prescriptions that are still written for formulas in past editions of the National Formulary. Even if the prescribers' copies of the pre-war Formularies are still in good repair, it is doubtful whether the same can be said of the more-used copies in pharmacies; moreover, pharmacies established in recent years will often be without copies. Essex pharmacists, however, are being specially provided, as the result of efforts by their Pharmaceutical Committee, with the formulas of mixtures from National Formularies and National (War) Formularies, 1939 to 1949, that have been dispensed in Essex during the first few months of 1953. The Essex initiative might with advantage be copied by other Pharmaceutical Committees.

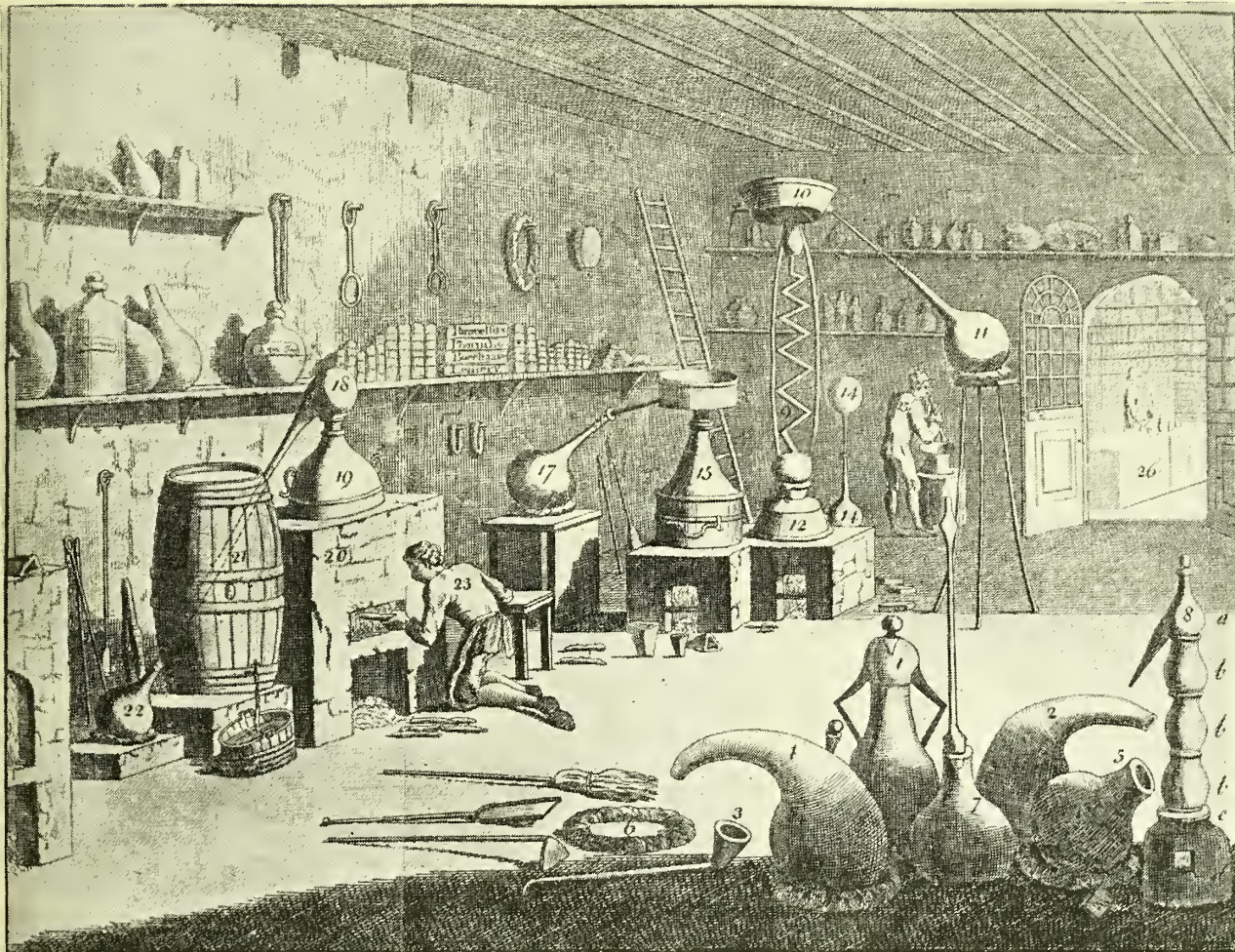


A MISSION that went from Great Britain under the auspices of the Ministry of Health, Department of Health for Scotland, and the Ministry of Housing and Local Government, to study the effect on dental decay of fluoridation of water in U.S.A. and Canada recently published its report (H.M. Stationery Office, 5s.). Although the Mission is in favour of adding small amounts of fluoride to piped water supplies to reduce dental decay, its members recommend that before it is generally adopted in Great Britain carefully controlled investigations in selected areas should first be undertaken. The Mission is convinced that in children and adults born and brought up in areas where fluoride occurs naturally in the drinking water at a level of 1.0 part per million or more, there is much less dental caries than in areas where the water is free from fluoride. Among children aged 12-14 there was about 60 per cent. less dental decay, and about six times as many children had permanent teeth which were free from caries. A few studies among adults in England and in the United States showed that the effects of fluoride persist at least up to about forty years of age. For example, the incidence of dental caries was 45 per cent. less in children aged twelve years in South Shields, where the fluoride content of the water was estimated to be 1.4 p.p.m., than in North Shields, where the amount was only 0.25 p.p.m. In recent years, many North American communities whose water supplies contain little

or no fluoride have added fluoride compounds to a level of 1.0 p.p.m. as a means of controlling dental decay. Fluoridation of water supplies is considered preferable to all other methods of fluoride treatment. The topical application of a solution of sodium fluoride to the teeth did not give the same degree of protection, nor was its effect upon them so lasting. The use of tablets for treating water by individuals or families without a piped supply might, as a result of carelessness, be ineffectual and even risky. Mottling, the experts thought, was no hazard. No evidence could be found of any danger to health from the consumption of water containing fluoride in low concentration, and the mechanical addition of fluoride to a water supply at any desired level presented few difficulties. With a correctly designed plant there was no danger of adding a toxic overdose, and risks to the public of poisoning were negligible.



THE summer often brings in its tracks fatalities to children from eating some part of the comparatively few species of poisonous plants to be found in Great Britain. At a Croydon inquest recently a pathologist mentioned a sometimes overlooked poisoning hazard—the use as pea shooters of the stems of hemlock (*Conium maculatum*, known also as poison parsley and spotted parsley). Hemlock hazards are not entirely chemical. The inquest showed that the victim, a six-year-old child, had died of choking from inhaling a hawthorn berry that she was about to “shoot.” From the chemical aspect there may be risk from a recently-introduced plant which may also be used as a pea shooter and which, when used as a “telescope” (for the “bore” reaches up to 10 cm.), has caused troublesome rashes of the mouth or eye. That is the giant hogweed, *Heracleum mantegazzianum*. It is an umbelliferous plant related to the native hogweed, *H. sphondylium*. It is not recorded that any poisonous active principle has been extracted from it, though the plant appears to have at least one unidentified irritant constituent. The Botany Section, Natural History Museum, Cromwell Road, London, S.W.7, is embarking on a record of plant poisonings, and pharmacists and others who have a special interest in this matter can help in its compilation by sending in relevant information.



Laboratory, with shop in background. From the "Universal Magazine," 1747.

APPARATUS OF THE PAST

By HOWARD BAYLES

WHEN Ben Jonson's "The Alchemist" was revived in a London theatre a few years ago, chemists and pharmacists who saw the play were no doubt entertained by the dramatist's introduction of terms used by chemists and alchemists of his period. Subtle, Jonson's alchemist, was parading those terms to beguile Sir Epicure Mammon, his prospective victim, just as a conjurer reels off his patter to lull his audience. Alchemy was then declining because of the stronger appeal of chemistry, rudimentary though that chemistry was. Yet it had a following for several more years. As late as 1669, William Rowland's translation of Johann Schroeder's "Pharmacopœa Medico-Chymica" contained six pages of tables and diagrams showing alleged planetary influences. Chemistry and alchemy had at least one feature in common, their names for apparatus. From Schroeder's book and other sources I have selected a few:

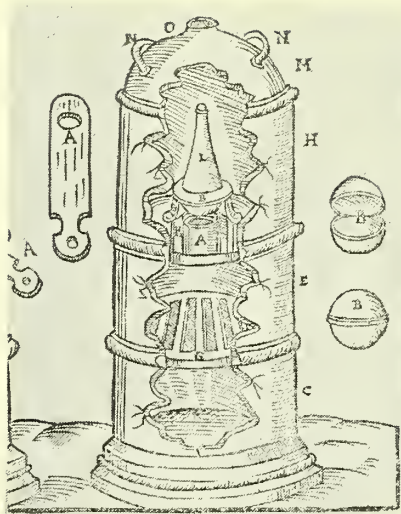
Ahenum, a brass kettle; arcula, a box; athanor, a covered furnace; bozia, a cucurbit; campanum vitreum, a glass bell-jar; catinus, a cupel; diploma, a balneum Mariæ; excipulum, a glass receiver; fictile, an earthen vessel; lagena, a pitcher; setaceum, a hair sieve; torcular, a press; tritorium, a funnel.

Problems of Distillation

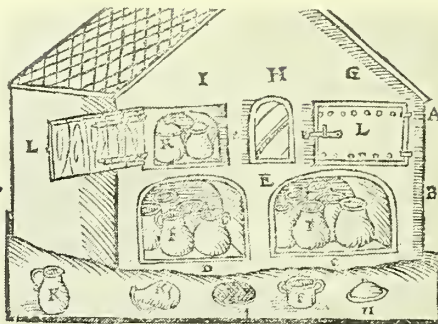
Volume II of Berthelot's "La Chimie au Moyen Age" has a few facsimiles of crude drawings of apparatus found

in Syriac manuscripts at the British Museum and in an Arabic manuscript at Cambridge; they are assigned to the seventh, eighth or ninth century. From this tentative beginning developed the making of a variety of equipment, some of which is shown in the accompanying illustrations. Omitting such common utensils as mortars and tongs, most of what has been selected is related to distillation. The pioneer treatise in the period now surveyed is the "Liber de Arte Distillandi" (1500) of Hieronymus Brunschwygk, an author whose surname, like Shakespeare's, is variously spelt. Some of the illustrations in that book were improved upon by later designers, and I have chosen accordingly.

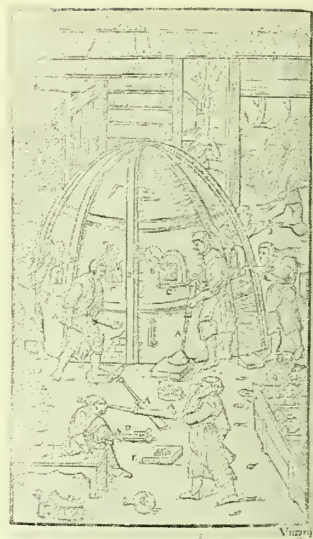
For an athanor I have used the 1606 edition of "Alchymia Andreae Libavii, recognita, emendata, et aucta . . ." (In that book the word is spelt "athannor.") Libavius, born in or about 1546, was an important figure in the chemistry of his day. In 1591 he taught at Jena University, and later at Coburg, where he died in 1616. He has been described as an "anhänger" of Paracelsian teaching, but eclectic in outlook; and he is remembered especially for his study of mineral waters. The structure of an athanor gave the operator some control over degrees of heat. A different type of furnace shown by Libavius is the "Separatorium Sulphuris a Vena," an apparatus consisting essentially of two chambers with a dividing wall between. This, as its title indicates, was designed for separating sulphur



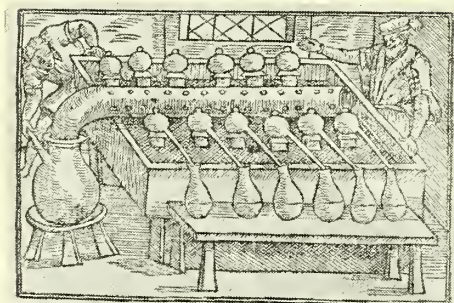
Athanor. From "Alchymia Andreae Libavii" (1606).



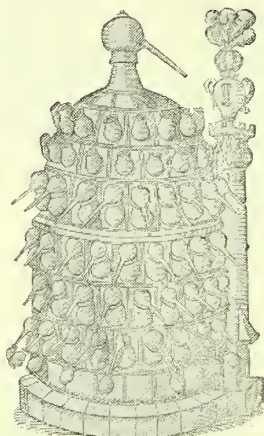
Furnace for separating sulphur from ore. From "Alchymia" (1606).



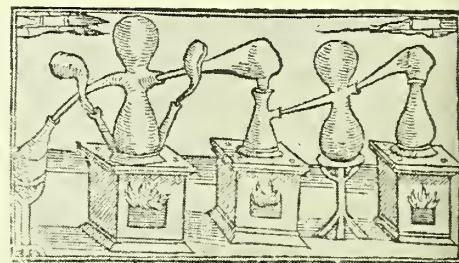
Furnace. From "De Re Metallica" (1556)



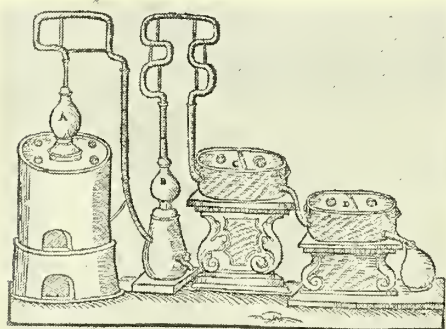
Distilling by moderate heat. From "The newe Iewell of Health" (1576).



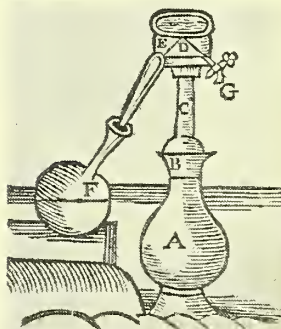
Apparatus for distilling waters from herbs. From "Opera Quae Extant Omnia" (1674).



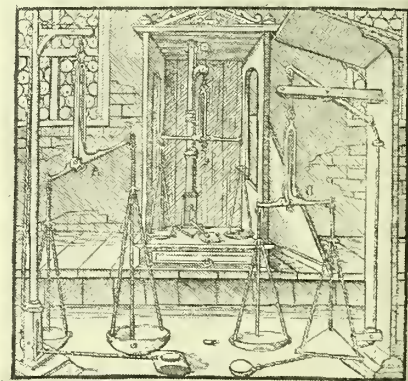
Three furnaces with stills. From "The newe Iewell of Health" (1576).



Distilling apparatus. From "Alchymia" (1606).



Distilling apparatus. From "The Art of Distillation" (1651).



Scales, etc. From "De Re Metallica" (1556).

from an ore. With it may be compared one taken from the "De Re Metallica" (1556) of Georgius Agricola; various types were also employed for the extraction of mercury and other chemicals.

Ingenious Devices

Among the numerous pictures in George Baker's "The newe Iewell of Health" (1576)—some of them printed more than once—are two indicating, with their accompanying text, that sixteenth-century chemists took considerable pains to obtain the results desired. One picture shows apparatus for distilling with a moderate heat. The chest, made of wood, was filled with farmyard manure and "short chopped straw;" the long pipe could be made of copper, lead, or wood; the vessel on the tripod might be earthen or copper. The other picture from the same book (three stills

on three furnaces) was designed for obtaining a quintessence in one operation. The furnace on the right was the hottest, the one in the middle less hot, and the one on the left the least hot. The first two of these stills were placed on fine, sifted sand, the third in water. Further light is thrown on this problem of heat regulation by the description of an apparatus in the 1674 edition of the "Opera Quae Extant Omnia" of P. A. Matthiolus, the sixteenth-century physician and botanist whose commentaries on Dioscorides were the subject of an article in THE CHEMIST AND DRUGGIST Annual Special Issue of June 28, 1952. This apparatus was used for distilling waters from herbs. The text states that it was common in Venice and Naples, where glass alembics abounded. Though the alembics were glassware, the cucurbits were earthenware. In the event of the fire being fierce, "vacua relinquunt vasa, donec

parumper remittatur, ne violente calore plantæ aut flores exurantur" (they leave the vessels empty till it has lessened a little, lest the plants or flowers are destroyed by the violent heat). When the heat was judged to be correct for the operation, herbs were put into the fictilia and the alembics were replaced. Waters thus obtained were held to be superior to those which had been in contact with lead.

The method of condensing by means of a long pipe or worm surrounded by water kept cool seems not to have occurred to distillers for a considerable time after 1500, judging from the books that I have consulted. Turning again to Libavius, we find distilling apparatus with cooling water that was changed by emptying a vessel "juxta fundum epistomia" (by the stopper next the bottom). That

somewhat troublesome process had a variant in John French's "The Art of Distillation" (1651). A pan was attached to the top of a pipe leading from the still (a copper still), and cold water was "continually poured" into this pan. A tap at its side is shown in the picture without any indication of where the water goes. The other illustrations on pp. 119, 120 show scales—one, from Agricola's book, "in loculamento posita," a forerunner of the chemical balance—and a laboratory attached to the shop of an apothecary or chemist and druggist of 1747, reproduced from "The Universal Magazine" for that year. The man at the laboratory furnace is described in the magazine as "the Chemist at work," and the man occupied with the mortar (he is said to be beating drugs) as a labourer.

MEDICAL ABSTRACTS

DEATH AFTER INTRAVENOUS IRON

A SUDDEN death following a first injection of 100 mgm. of saccharated iron oxide (administered in the form of Ferri-venin) is described by Barritt and Swain (*British Medical Journal*, 1953.1.379). They warned that the initial dose should not exceed 25 mgm.

MYSOLINE IN EPILEPSY

FAVOURABLE results in the treatment of epilepsy patients for fifteen months with Mysoline (5-phenyl-5-ethyl-hexahydropyrimidine-4:6-dione) are reported by Butler (*Lancet*, 1953.1.1024). The cases numbered fifty-eight and were at St. David's Hospital, Edmonton. In 23 per cent. of the cases petit-mal attacks were reduced by one-half. There were side-effects, principally drowsiness, which necessitated abandoning the drug in eight cases, but otherwise toxic effects were few and transitory.

ADRENALINE CREAM ASSESSED

AN assessment of the use of adrenaline cream in miners suffering from rheumatism has been made by Lawrence and Sladden at the Walkden Miners' Clinic and Rheumatism Research Centre, Manchester University (*British Medical Journal*, 1953. 1. 1085-87). Adrenaline cream applied locally in a number of rheumatic diseases was found to give greater relief than a simple cream. Dry massage also gave greater relief than massage with simple cream or no massage at all. (No significant difference was noted between the effects of dry massage and massage with adrenaline cream.) Repeated applications of adrenaline cream appeared to delay recovery in rheumatic diseases. The duration of relief was not greatly affected by the type of procedure although dry massage appeared to give the most relief.

GANGLION-BLOCKING AGENTS

A REPORT is made by Maxwell & Campbell in the *Lancet* (1955. 1. 455), who compared the ganglion-blocking activity of nine new compounds prepared by May & Baker, Ltd., with that of hexamethonium and Gaplegin (a monoethyl homologue of hexamethonium). Two were found with a high degree of activity in man in reducing blood pressure. The more active of the two, pentapyrrolidinium (pentamethylene 1:5-bis (1'-methylpyrrolidinium) bitartrate) was less selective in action. Both that and phenyldimethonium (phenylethane-p- ω -bis (trimethyl-ammonium dihydrogen phosphate) tetrahydrate) had a longer-lasting action than hexamethonium, and gave more consistent results by oral administration. They are suggested as suitable for examination as therapeutic agents in the management of hypertension. Wien & Mason (*ibid.*, p. 454) in a preliminary note on pentapyrrolidinium di-iodide, claim for it a ganglion-blocking activity five times that of hexamethonium bromide. They found it devoid of anticholinesterase, neuromuscular-paralysing and histamine-liberating properties in doses fully effective in blocking ganglia, and, in guinea pigs, without effect on growth rate, blood picture or bodily health when given in doses far in excess of pharmacologically effective amounts. Clinical trials with the bitartrate are favourably reported on by Smirk (*ibid.*, p. 457), who refers to the advantages over hexamethonium that the drug causes a more lasting fall in blood pressure, and has a much smaller oral dose.

PREVENTING DUST DISEASES

AN admirable summary of the principles of preventing dust diseases is included in a monograph on the subject by McLaughlin in the *Lancet* (1953. 2. 104). It is:—

1. Replacement of harmful material by a less toxic one.
2. Dust suppression or control by
 - (i) Ventilation { general
local
 - (ii) Enclosing
 - (iii) Changing
 - (iv) Isolating
 } the process
- (v) Wet methods { water
oil
- (vi) Electrostatic precipitation
- (vii) Good housekeeping
3. Personal protection of the worker by
 - (i) Dust respirators
 - (ii) Air veil
 - (iii) Breathing apparatus

The first seems improbable of achievement, but the author cites as examples the substitution of carborundum for sandstone in the grinding industry and the prohibition of the use of sand in blasting operations.

General ventilation is good but not enough, and even local ventilation, as by suction hoods over machines, may be deceptive, as shown by photographs taken in a Tyndall beam. Changing the process is seldom possible, but isolating it at least safeguards workers not directly engaged upon it. As a "wet method" the author refers to the use of oil to lay dust on hospital floors. He examines and illustrates several types of respirator, and appeals for greater co-operation, "leading even to integration," between hospitals and the doctors whose work is in industry.

DE MORTUIS—

PERCEIVE that freshly labelled drawer
And mark the writing well,
Not "D.D.A." or "Schedule Four"
But simply—"Condemned Cell."
Our stockkeeper's reduced to tears
The boss is in hysteria,
That drawer contains the stock of years
Within its dark interior.
Not to rash buying does this point
Or travellers' tales imbibing,
But to the efforts of the Joint
Committee on Prescribing.
Those hundreds, fifties, all the same,
Alas, from now on shall be
Grouped under the generic name
—Tab. Elephantii Albi.
Albeit with profound respect
We bow to experts' dicta
And yet, withal, we must reflect
We hope they don't get stricter.
Imagine, brethren, what a fix!
—Could we a crust still garner
If under Cat-eg-ory Six
They put Aqua Fontana?



SEVENTY-THREE YEARS A PHARMACIST

Reminiscences of Mr. George Richard Lawrence, Ph.C.,
Rhyl, the oldest registered member of the
Pharmaceutical Society of Great Britain

IN submitting the following notes by invitation, Mr. Lawrence (who was registered as a Chemist and Druggist in 1880 and as a Pharmaceutical Chemist in 1886) explained that he had never sought publicity except to sell goods.

In the Eighteen-seventies

I was born, writes Mr. Lawrence, about two miles from the centre of Boston, Lincs. On leaving the Grammar School at the age of fifteen-and-a-half I became in February 1874 an indoor apprentice for four-and-a-half years to a Pharmaceutical Chemist. Entering the spacious shop in the Market Place I found it was my privilege, for which a premium was paid, to keep large windows clean, inside and outside. Hours were 7 a.m. to 8 p.m. (Saturdays, 10 p.m.). As junior I was early initiated into the art of dealing with paraffin, which came to us as imported in 40-gall. casks without a tap hole in the end. Nominally a porter was employed, but occasionally it fell to my lot to deliver a cask by hand-cart to a boat on the Drain (canal) or the cart of a country carrier. Paint mixing had to be learned and formed a considerable item on market days. Conveying hundredweight bags of rice flour to the top of the high building, where we also had rooms, and converting it with the appropriate amounts of tartaric acid and sodium bicarbonate into baking powder, was a very dusty job. Our usual quantity was over 100 lb., which was packed in 1-oz. and 4-oz. lots. It found a ready sale in country shops to which we also supplied 1d. boxes of pills, 1- and 2-gr. quinine powders and household drugs. Practically all our pills were rolled by hand, and all tinctures of a pint and upwards made on the premises. Laudanum (not B.P.), tinct. rhei. co. and spt. æther nit. were all 3d. per oz. Opium was bought in 28-lb. lots and cut into pieces of one drachm, $\frac{1}{2}$, $\frac{1}{4}$ and 1 oz., selling at 1s. 9d. to 2s. per oz. I have handed over the counter as much as 4 oz. to a single customer. Two addicts, man and wife, told me it helped them in their daily work on the land. I had heard that poppies were once cultivated in Lincolnshire, and once a farmer brought in a few thousands of green capsules which he had gathered as a catch crop in a potato field. These were dried and disposed of to wholesale houses. Considerable quantities of beeswax and honey came from the country, gathered by the old method of destroying the bees. Prescriptions were few, as all local doctors supplied medicines from their surgeries. One exception was when a plaster was required. This was passed on to the chemist and several came in that way. It was usually emp. bellad. on leather; many with a 1 in. margin of emp. plumbi. were ordered. To spread these developed into a fine art. Wine bottles brought by farmers for laudanum were filled without question. Horsemen took pride in the appearance of their animals, and to improve their coat gave arsenic, sometimes with fatal results. During my time several stomachs were brought to us to confirm or disprove by analysis the diagnosis of a veterinary surgeon.

During apprenticeship we were encouraged to study, time being allowed and assistance given. An advertised

pill, which the proprietor said was from a prescription of Dr. Abernethy, attained a good sale. Some 2-gall. carboys filled with these and placed in the window proved a good advertisement. We knew nothing of tablets but I have some recollection of a few packages of compressed soda. At least two stationers sold stamped medicines, and cut prices to the extent of the stamp value, so we went a little lower, but drugs were not affected. During apprenticeship I always looked for the arrival of *THE CHEMIST AND DRUGGIST* then monthly issue, which was read with pleasure and profit.

Present-day students reading this will realise that they have missed much by not being born in the "good (?) old days."

From Boston I went in 1878 to Leicester as second assistant in a business where cutting was a feature. Here the window enclosures were used as receptacles for odds and ends, the front glass being covered with strips in large type—so and so's price—our price. These were renewed weekly. The unqualified senior and his wife took me into their home as a paying guest, and from him I gained insight into some of the methods by which cutting was made to pay. Soon after I went there the serving space was doubled by taking in part of the back premises, and a large room over the shop was fitted for dispensing with speaking tube, box and pulley as communication. I was glad to escape from previous interruptions when working at the counter. One amusing occurrence there was when a prescription for emp. bellad. on leather perforated was presented. I sent an order to a well known local factory and received the reply that they were not able to spread the plaster but would perforate one if sent to them, and this was done. I remained there less than a year.

Then to Hastings, where contract dispensing for two doctors added to ordinary work, and making and hand-coating pills made for full days. I revelled in Ecclesbourne and Fairlight Glens when off duty. The climate was too relaxing for me, however. I went next to a part-time season job in Ramsgate. Most afternoons I spent lying on the cliffs with Attfield's Chemistry and Bentley's Botany as my companions.

Demonstrator

Returning home, I spent the days in reading, and with assistance from my apprentice master I decided to make contact with 17 Bloomsbury Square. The examiners were kind, and I arrived home with my certificate in December 1880. After a period in Macclesfield I went to Rock Ferry to take charge, single-handed, of a small branch business where there was time for reading, and on off nights I crossed to Liverpool to visit Mr. J. S. Ward (principal, Liverpool School of Pharmacy). From him I received instruction and advice for a week's work. As the school increased, assistance was needed, and Mr. Ward suggested that I might go to him as demonstrator, and in this way revive the old minor work, at the same time receiving assistance from him for the major examination. So in July 1886 I once more entered the portals of No. 17 and was not disappointed. Mr. Ward died a year or two later, when Mr. H. Humphreys Jones succeeded and further developed the school.

The next move was to find a suitable place to settle in, and after seeing various businesses for sale I decided on one in Rhyl that had been much neglected. I took over on September 1, 1886, with a lean winter in prospect. It was uphill work and the errand boy I found in the shop provided sufficient assistance. I thus became one of the four chemists in a town that now supports seventeen. During my first week I approached the late Mr. T. M. Davies for something needed, was kindly received, and the contact then made resulted in a friendship which still continues with his son, Mr. H. C. Davies, who has recently retired. A few years ago my first apprentice, Mr. E. D. Edwards, Cardiff, being on a visit to North Wales, came to see me, and we have exchanged greetings each Christmas since.

On coming to a foreign country of which I knew nothing, I obtained a book on "How to Learn Welsh," but was discouraged by the frequent advice to consult a Welsh person. By their contact with visitors I found the people who came to me were able to speak my language, though in the country very many knew only their own tongue.

After his release from National Service in 1918 my son came into partnership, qualified as an optician, and added optics to the business. In January 1940 a bad fall on an icy road sent me to hospital for six weeks, when I decided to retire. The business is now a limited company.

And now a word in favour of Rhyl. In the last quarter of my ninety-fifth year I know I have forgotten many things, but one experience, when I think not more than five, remains indelibly fixed in my mind. Out with my grandmother one day I heard her confide to a friend that I was a poor delicate little thing, and she thought I could not be reared. Rhyl has suited me better than any other district whose climate I have experienced.

A NORWICH CENTENARY

The Pharmacy of Row & Taylor, Ltd.

THOUGH Norwich has many buildings witnessing to its long history, few of its oldest pharmacies remain. During the past fifty or sixty years at least seven of them have disappeared, and the respective premises have been reconstructed for other purposes. It is all the more a matter for congratulation that Row & Taylor (Norwich), Ltd., have just attained their centenary.

In May or June 1853 Mr. Frederick Row started this pharmacy at its present address in St. Stephen's Street, a busy thoroughfare that many visitors arriving by road from the south pass through. In 1865 he was granted a patent for the manufacture of tartaric acid and citric acid. The business was continued by Mr. George Row, to whom his nephew, Herbert Edwin Taylor, served an apprenticeship. After qualifying as a chemist and druggist in 1873, Mr. Taylor gained experience elsewhere, eventually returning and becoming proprietor of the establishment with a corresponding addition to its name. In 1924, when his health was failing, he formed a private limited company to continue the business. Miss E. S. Taylor, his daughter, joined the directorate and is now the senior director. Miss A. M. Row, M.P.S., became a director in 1927, and was appointed registered superintendent on Mr. Taylor's death. Miss Row died in 1951.



The premises were damaged during an air raid in 1942, but were re-opened within a week. That event was the cause of another change. The pharmacy of Fuller & Co., Ltd., in a neighbouring street was demolished in that raid; and Mr. W. H. Rudd, who had just been made a director

and the superintendent, bought the goodwill and amalgamated the business with that of Messrs. Row & Taylor. On the retirement of Miss Row he became managing director and superintendent of the company, which carries on the homœopathic trade started by Messrs. Fuller & Co. That business was about as old as the one that has acquired it. In a Norfolk directory for 1858 it appeared as Slade & Rapier. Mr. H. E. Fuller, chemist and druggist, purchased it a few years later; he was succeeded by Mr. A. E. King, Ph.C., a former apprentice, who ultimately converted the concern into a limited company. On his death in 1942 Mr. Rudd, who had been apprenticed to him, bought his interest.

Improvements in St. Stephen's Street will necessitate the removal of Messrs. Row & Taylor to an adjoining site (to be No. 8 in the same Street) and the demolition of their existing shop. Probably they will part with the old premises with some regret, for the building itself dates mainly from the fifteenth century.

NEW BOOKS

The Hygiene of Marriage

ISABEL EMSLIE HUTTON, C.B.E., M.D., *William Heinemann Medical Books, Ltd.*, 99 Great Russell Street, London, W.C.2. 7½ x 4½ in. Pp. 160. 7s. 6d.

THE ninth edition has been partly rewritten and a new set of illustrations has been drawn to supplement the anatomical section. The previous form of the book has been adhered to. Convinced that much marital discord is caused by lack of education in sex hygiene, the author deals with the matter simply and scientifically for persons intending to marry, treating in turn mental, anatomical, physiological and practical considerations. Childlessness, birth control and problems of later life are also mentioned. No attempt is made to deal with problems that are the concern of the medical adviser.

Whillans's Tax Tables and Tax Reckoner 1953-54.

GEORGE WHILLANS, *Butterworth & Co. (Publishers), Ltd.*, 88 Kingsway, London, W.C.2. 9½ x 6 in. Pp. 11. 5s. (reduced prices for bulk orders).

ONE of the many useful features in the tables is a ready-reckoner chart covering the rates of tax from 2s. 6d. to 9s. applicable to the last Budget and Finance Act. It shows at a glance the liability to tax under varied conditions prevailing and should be advantageous to those dealing with tax computation. There is also incorporated a chart of the rates and reliefs from 1938-39 to 1953-54 inclusive which will be useful for those engaged upon adjustment of tax over those years. In addition there are tables of surtax rates; assessment of income arising from abroad; double taxation agreements in force; P.A.Y.E. codes for 1953-54; National Insurance contribution rates for employees, self-employed and non-employed persons, and rates of estate duty, etc.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

FEMANDREN.—Each Linguet contains 0.005 mgm. ethinyl oestradiol and 2.5 mgm. methyltestosterone. Indicated in climacteric disturbances. Usual dose is two to three Lingquets daily; later four to six daily. Allow to dissolve slowly in the hollow of the cheek. Packs of twenty and 250 issued by Ciba A.G., Wehr (Baden) (*Apothekerztg.*, May).

PRIMODIAN.—Each tablet contains 4 mgm. methyltestosterone and 0.002 mgm. ethinyl oestradiol. For disturbances of climacteric and following castration, in flushes, feelings of vertigo, insomnia, propensity to perspire. Begin treatment with four to six tablets; on improvement, two to three daily in a little water, with or after food. Packs of thirty and 150 tablets issued by Schering, A.G., Berlin (West) (*Apothekerztg.*, May).

ST52—ASTA.—Diethyl-dioxy-stilbene-diphosphate in form of disodium salt. Each ampoule contains 5.2 mls colourless solution (5 mls = 0.25 gm.). Indicated in carcinoma of the prostate. Dose: one ampoule daily by slow intravenous injection for four to five days consecutively. Packs of five and twenty ampoules issued by Asta-Werke A.G., Chemische Fabrik, Brackwede (Westphalia) (*Apothekerztg.*, May).

INACTIN.—Sodium salt of ethyl-sec-butylmalonyl-thiourea. For short or prolonged anaesthesia, associated with curare in artificial oxygen respiration; with curare, nitrous-oxide and oxygen; with nitrous-oxide and ether. Dose: As instructed by the physician. Packs of one, ten and twenty-five rubber-capped bottles of 0.5 or 1 gm. Inactin, with or without ten or twenty mls of solvent, issued by Chemische Fabrik Promonta G.m.b.H., Hamburg (*Apothekerztg.*, May).

TERPICHIN-PENICILLIN.—Procaine penicillin G, 300,000 units in Terpichin, 1.5 mls. To render product homogeneous, 1.5 per cent. aluminium monostearate is added. Indicated in all infections by penicillin-sensitive pathogenic organisms, especially in patients whose general condition is very low, with agranulocytosis and with poor defence against infection. Usual daily dose, 1.5 to 3 mls. Children, according to age. Deep intramuscular injection only. 1.5-ml ampoules (300,000 units) are issued by Chemisches Institut, Dr. Ludwig Oestreich, Munich (*Pharm. Ztg. Nachrichten*, April 5).

THYREOCORDON.—N,N'-dimethylol-mercapto-benzimidazol. Indicated in thyrostatic actions, hyperthyreosis, thyrotoxicosis. Basedow's disease, vegetative dystonia, hypertension, coronary circulatory disturbances. Dose: Hyperthyreosis, initial dose up to ten tablets daily, maintenance dose two-three tablets daily; vegetative dystonia, up to four tablets daily for ten days; angina pectoris, up to four tablets daily initially. Prolonged therapy, two tablets daily. Packs of fifty, 250 and 1,000 tablets each containing 25 mgm. active material are issued by Byk-Gulden, Lomberg, Chemische Fabrik, G.m.b.H., Konstanz (*Pharm. Ztg. Nachrichten*, April 5).

THESIT.—An oxypolyethoxydodecane with the formula $C_{12}H_{25}(OC_2H_4)_xOH$. Indications:—Suppositories (5 per cent. Thesit with bismuth subnitrate, zinc oxide): pruritus ani et vulvae; ointment: (3 per cent. Thesit in a fatty base free from hydrocarbons): pruritus; liquid (10 per cent. aqueous solution of Thesit): superficial anaesthesia. Use:—Ointment, spread thinly several times daily; liquid, to relieve pain in peptic ulcer, gastritis, etc., 20 drops in 20 mls water. Dispensing packs of fifteen and 100 gm. of Thesit of ten and 100 suppositories, of tubes (circa 27 gm.) and hospital packing (200 gm.) ointment of 50 and 500 gm. liquid, issued by Desitin-Werk Carl Klinke, G.m.b.H., Hamburg (*Apothekerztg.*, May).

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

ACNIL

MANUFACTURER: Genatosan, Ltd., Loughborough, Leics.

DESCRIPTION AND FORMULA: A masking cream containing resorcinol, $\frac{1}{2}$ per cent.; precipitated sulphur, 3 per cent.; cetrimide, $\frac{1}{2}$ per cent.; in a flesh-tinted masking base.

INDICATIONS: Chronic acne.

HOW SUPPLIED: In tube of 1 oz.

FIRST ISSUED: May 1953.

PSOROX

MANUFACTURER: Genatosan, Ltd., Loughborough, Leics.

DESCRIPTION AND FORMULA: An ointment containing purified fraction equivalent to crude coal tar, 10 per cent.; salicylic acid, 3 per cent.; ammoniated mercury, 2 per cent.; in a mixed paraffin base.

INDICATIONS: Chronic psoriasis.

HOW SUPPLIED: In tube of 1 oz.

FIRST ISSUED: May 1953.

PENTAERYTHRITOL TETRANITRATE

PROPRIETARY NAME*: MYCARDOL.

MANUFACTURER: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

ACTION: Prolonged vasodilation with lowering of blood pressure.

INDICATIONS: Angina pectoris.

DOSAGE: Average dose: Two tablets (see below) thrice daily.

HOW SUPPLIED: In bottles of 100 and 1,000 scored tablets each containing 30 mgm.

FIRST ISSUED: June 1953.

REFERENCES: Perlman, *Angiology*, 1952, 3, 1; Samuels and Padernacht, *ibid.*, 20; Winsor and Humphrey, *ibid.*, 1; Talley and colleagues, *American Heart Journal*, 1952, 44, 866.

DI-PARALENE CALAMINE CREAM

MANUFACTURER: Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex.

DESCRIPTION AND FORMULA: A cream containing chlorcyclizine hydrochloride (Di-Paralene), 2 per cent.; calamine, 23 per cent.; and phenol, 0.9 per cent. in a water-soluble base.

INDICATIONS: Dermatitis, mild sunburn, insect bites, urticaria.

USE: Apply three or four times daily. Prolonged use should be avoided. HOW SUPPLIED: Tube of 1 oz. FIRST ISSUED: April 1953.

SURFATHESIN JELLY

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTION: A jelly containing 0.75 per cent. Surfathesin brand cyclomethycaine in a water-soluble jelly base.

INDICATIONS: To provide local anaesthetic action on diseased or damaged skin, and on rectal, bladder, vaginal and urethral mucous membranes. It should be employed only in the untraumatised urethra.

HOW SUPPLIED: In 1-oz. tube containing a urethral-tip nozzle.

NOTE: Surfathesin was formerly known as Topocaine. FIRST ISSUED: May 1953

ANDROSTALONE

MANUFACTURER: Roussel Laboratories, Ltd., 847 Harrow Road, London N.W.10.

DESCRIPTION: Methylandrostan-17 ol-3 one, a non-masculinising androgen, a potent antioestrogen.

INDICATIONS: Dysmenorrhœa, mammary tension and neoplasm, meno-metrorrhagia, menopause. As a protein anabolic.

DOSAGE: One to three Glossettes (see below) daily for one to three weeks, sublingually.

HOW SUPPLIED: In containers of twelve, 100 and 500 sublingual tablets (Glossettes) each containing 25 mgm.

FIRST ISSUED: June 1953

REFERENCES: Ferin, *Ann. Endocrinol.*, 1951, 12, 6, 1082; Flamand and colleagues, *ibid.*, 1952, 13, 5, 883; Escher and colleagues, paper presented at the American Federation for Clinical Research, New Orleans, January 30, 1953.

ROCCAL CREAM

MANUFACTURER: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.
FORMULA: Benzalkonium chloride 1:500 in a methyl-cellulose buffered base.
INDICATIONS: In obstetrics and as an antiseptic dressing and protective cream.
HOW SUPPLIED: In tube of 2 oz. and jar of 7 lb.
FIRST ISSUED: June 1953.

ALTEPOSE

MANUFACTURER: Sharp & Dohme, Ltd., Hoddesdon, Herts.
DESCRIPTION AND FORMULA: Tablets, each containing phenylpropanolamine hydrochloride (Propadrin), 50 mgm.; thyroid, 40 mgm.; vinbarbitone (Delvalin), 25 mgm.
INDICATIONS: Obesity.
DOSAGE: Average dose, one tablet two or three time a day before meals.
HOW SUPPLIED: Bottle of 100.
FIRST ISSUED: June 1953.
NOTE: The tablets should not normally be administered to patients with heart or thyroid disease, or with high blood pressure.

LIPIODOL—Sulphanilamide

MANUFACTURER: Laboratoires André Guerbet & Cie, 22 Rue du Landy, Saint-Ouen, Paris. Distributors in the United Kingdom: Bengué & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex.
DESCRIPTION AND FORMULA: A viscous contrast medium for bronchography, containing sulphanilamide, 6.40 gm.; sod. thiosulph., 0.04 gm.; iodium, 8.60 gm.; ol. papaveris, ad 20 c.c. (Approximate quantities).
HOW SUPPLIED: In 20-c.c. bottle.
FIRST ISSUED: July 1953.

EBEFOS

MANUFACTURER: Evans Medical Supplies, Ltd., Speke, Liverpool, 19.
DESCRIPTION AND FORMULA: A mixture containing, in the percentages given, sodium glycerophosphate, 4.58; caffeine, 0.92; strychnine hydrochloride, 0.0072 w/v.; aneurine hydrochloride, 0.0144; phosphoric acid, 1.00; sucrose, 60.0; colouring, flavouring and preservative, a sufficiency; in water.
INDICATIONS: Asthenia and debility.
DOSAGE: Adults, 2 fl. dr.; children, $\frac{1}{2}$ to 1 fl. dr.
HOW SUPPLIED: Bottles of 8 fl. oz., and 2 litres (dispensing pack).
FIRST ISSUED: May 1953.

DERMASULF

MANUFACTURER: The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10.
DESCRIPTION AND FORMULA: A stable aqueous solution of complex polythionic acids and their salts of general formula: $H_2S_xO_6$ (x is principally 4 or 5). It is available as a $3\frac{1}{2}$ per cent. solution. The polythionate content, as tetra- and penta-thionate, of the $3\frac{1}{2}$ per cent. solution is equivalent to $1\frac{1}{2}$ per cent. elemental sulphur. The pH is approximately 3.4.
INDICATIONS: Acne vulgaris, pityriasis capitis, rosacea, and seborrhœic dermatitis.
USE: For scalp, 30-40 drops applied daily and massaged into the scalp with finger tips. Other areas of skin, apply with finger tips, etc., morning and evening.
HOW SUPPLIED: In bottle of 2 fl. oz.
FIRST ISSUED: June 1953.
NOTE: The preparation is colourless and odourless and leaves no visible residue after application. Occasional irritation is caused by its use. The preparation is incompatible with strong alkaline solutions, salts of heavy metals, oxidising agents (e.g. hydrogen peroxide) and reducing agents (e.g. sulphides). Strong sunlight causes it to decompose. The preparation may be incorporated in greaseless ointment bases and salicylic acid may be added. Up to 2 per cent. resorcin may be incorporated in Dermasulf.

*Cross reference for card index:

MYCARDOL: see pentaerythritol tetranitrate.

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies":—

CORTOGEN ACETATE.—Brand of cortisone acetate, issued in 5-mgm. tablets by Schering Corporation, Bloomfield, New Jersey.

MEPHSON.—Brand of mephensin, issued as elixir (0.1 gm. per mil in an 18 per cent. alcohol, 30 per cent. propylene glycol solution in 118- and 473-ml and 3.78-litre bottles) and as tablets (0.5 gm.) by S. I. Tutag & Co., Detroit.

AMERICAN ACCEPTED COSMETICS

Products accepted by the American Medical Association's Committee on Cosmetics as conforming to the committee's rules.

TONI COMPANY.—*Toni home permanent* (a creamy solution consisting of ammonium thioglycollate, free ammonia ammonium salts, an emollient creaming agent, a surface-active agent, perfume, colour and water. Provided in three strengths. A cold waving solution intended to be used with a chemical neutraliser: waving lotion, 4 fl. oz.). *Prom home permanent* (a similar preparation intended to be used without a chemical neutraliser: waving lotion, 4 fl. oz.).

REVLON PRODUCTS CORPORATION.—*Aquamarine lotion deodorant* (an aquamarine cream emulsion composed of polyoxyethylene ethers and esters, cetyl alcohol, cholesterol absorption bases, fatty acid amide derivative, aluminium chlorhydrate, a buffer, a preservative, perfume, colour and water, intended temporarily to retard the flow of perspiration: bottle, 2 $\frac{1}{2}$ fl. oz.). *Cheekstick* (a pigmented, waxy solid in stick form, composed of petroleum, lanolin, a wax, covering agent, preservative, perfume and colours, intended to enhance colour of the cheeks: stick, 2.6 gm.). *Cuticle oil* (a rose-coloured solution composed of petroleum, colour and perfume, intended to soften the cuticle: bottle, 1 and 4 fl. oz.). *Cuticle remover* (an off-white solution of a polyethoxy ether, a substituted ammonium hydroxide, propylene glycol, preservative, colour and water, intended to soften the cuticle and permit its removal by gentle friction: bottles, 1, 4 and 16 fl. oz.). *Indelible cream lipstick* (a waxy solid stick composed of waxes, glycol and a glycol ester, vegetable oils, a cholesterol absorption base, a covering agent, a preservative, perfume and colours, intended to enhance the colour of the lips: tube, 4.5 gm.). *Nail cream* (a pink cream composed of lanolin, petroleum, a sorbitan ester, a wax, a covering agent, perfume, colour and water, intended to soften the cuticle: jars, $\frac{1}{2}$ and 2 oz.). *Paste polish* (a pink cream composed of a wax, a phthalate ester, lecithin, covering agents, perfume and colour, intended to add gloss to the nails: jar, 0.95 oz.). *Touch and glow* (a pigmented liquid composed of stearic acid, and its glycol ester, cholesterol bases, lecithin, covering and thickening agents, triethanolamine, a glycol, preservatives, perfume, colours and water, intended to serve as make-up to provide colour to the skin and a smooth appearance: bottles, 1 and 2 fl. oz.).

WILLS

Mr. E. ALLAN, M.P.S., 20 Ashley Park Drive, Aberdeen, left £1,933.

Mr. F. C. BARTON, M.P.S., 10 Bridge Street, St. Ives, Hunts, left £6,069 gross (£6,016 net).

Mr. D. A. EVANS, M.P.S., 25A Alma Road, Clifton, Bristol, left £23,312 (£23,009 net).

Mr. W. EVANS, M.P.S., Preswylfa, Highlands Road, Horsham, left £8,831 (£7,280 net).

Mr. T. G. JONES, M.P.S., Rexall Pharmacy, Aberfan, Merthyr Tydfil, left £2,205 (£262 net).

Mr. W. T. PITCHFORD, Ph.C., 1 Redland Hill, Redland, Bristol, left £250.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 29: With the end of the fighting in Korea, speculation about the future is uppermost in the minds of all. Rehabilitation in China and Korea should require large supplies of medicinal products, but against that potential market must be set the large stocks already accumulated in Hong Kong that the merchants have been unable to dispose of during the past few months. What, too, of the flow of goods in the opposite direction? The quantities of Chinese oils, menthol, and botanical drugs that may have accumulated in China are unknown, but it is feared in some quarters that they may be so large that, if released suddenly, they may have the effect of depressing still further an already depressed market. It is not surprising, therefore, that buyers are at present holding off such commodities as MENTHOL, the price of which is at its lowest level for years.

In the PHARMACEUTICAL and FINE CHEMICALS market the makers of OPIATES have published new schedules of prices, which are made retrospective to July 22. Their effect is virtually to increase the prices of alkaloids and salts by amounts varying between 2s. 9d. and 4s. 3d. per oz. The previous prices for 5-oz. lots now operate (with minor adjustments in some instances) for minimum 8-oz. lots. To meet European competition, domestic manufacturers of EMETINE HYDROCHLORIDE and EMETINE BISMUTH IODIDE have reduced their prices by 10s. and 5s. per oz. respectively.

In the CRUDE DRUGS market, SENEGA was again the most interesting feature. There are no supplies of spot material, and business was done for shipment at 13s. 9d. per lb. early in the week. Later there were no offers from origin, and the indication was that still higher prices (15s.) could be expected. Compared with the price ruling in the corresponding week last year senega is 4s. per lb. dearer. SHELLAC, too, is higher, with the F.O.T.N. variety at 237s. 6d. per cwt. —12s. 6d. up on the previous week and 45s. on the corresponding week of 1952. Increased buying on the part of India was held responsible for a 1s. per lb. rise in the shipment quotation for Zanzibar CLOVES. Quotations for Sumatra BENZOIN were received from origin after a lapse of several weeks. Spot supplies of good-quality benzoïn are scarce, and will undoubtedly remain so unless the forward position eases. The general tendency in most other crude drugs, however, including CASCARA SAGRADA, for which there were lower indications received from origin, was to weaken. There were no changes in the prices of IPECACUANHA and SENNA.

In the ESSENTIAL OILS market, ANISE, East Indian LEMONGRASS and PEPPERMINT (*Arvensis*) were lower, while PATCHOULI, PALMAROSA and EUCALYPTUS were dearer.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JULY 27: Demand for SULPHURIC ACID is at a high rate, and supplies are reported to be short in some areas. Recurrent rumours of an advance in ASPIRIN prices have not as yet materialised. Prices for ARGOLS

are nominal at around \$15 per 100 kilos in the absence of any demand. VANILLA BEANS made the strongest gains in the BOTANICAL DRUG market, with whole Mexican beans now \$4.65 per lb. (up 15 cents). Higher among ESSENTIAL OILS are CHENOPODIUM at \$8.25 per lb. (up 25 cents), and Californian LEMON at \$7.50 (25 cents). Lower per lb. are natural PEPPERMINT at \$4.75 and redistilled at \$5.25 (both down 25 cents); BERGAMOT, \$12.10 (five cents).

Pharmaceutical Chemicals

ACETIC ACID.—B.P. Glacial is £102 for 1-ton and 115s. for 1-cwt. lots.

ADRENALINE. — Minimum rates for B.P. are from 1s. 3d. per gm. and ACID TARTRATE, B.P. 1953, from 8½d.

ASPIRIN.—Prices are as follows:—5-cwt. lots, 4s. 6d. per lb.; 1-cwt., 4s. 6½d.; 28-lb., and under 1-cwt., 5s. 4d. Rates per 1,000 for TABLETS are as follows:—5,000, 4s. 10d.; 5,000 and over, 4s. 8d.; 10,000, 4s. 7d.; 25,000, 4s. 5d.; 100,000, 4s. 3d.; 250,000, 4s. 2½d.; 1 million, 4s. 1d.

DEXTROSE.—Rates (per lb.) for B.P. material are as follows:—

MONOHYDRATE		1-4 cwt.	5-cwt.
		s. d.	s. d.
1-lb. carton ...		1 11½	—
7-lb. tin ...		1 10½	1 9
14-lb. tin ...		1 9½	1 8
28-lb. tin ...		1 8½	1 7½
		Above, less 12½ per cent. to wholesalers, delivered.	
In bulk ...		£127 per ton, ex works, or store, for minimum 1-ton lots.	
ANHYDROUS		1-4 cwt.	5-cwt.
		s. d.	s. d.
7-lb. tin ...		2 0	1 10
14-lb. tin ...		1 10½	1 9
28-lb. tin ...		1 9	1 8½
		Above, less 12½ per cent. to wholesalers, delivered.	
In bulk ...		£132 per ton, ex works, for minimum 1-ton lots.	

EMETINE.—Lower. Prices for 32-oz. or 1-kilo lots are as follows: HYDROCHLORIDE, 230s. per oz. or 8,113s. per kilo. The BISMUTH IODIDE is 115s. per oz. or 4,056s. 6d. per kilo.

OPIATES.—Home trade rates for up to 7-oz. lots are increased. Minimum 4-oz. lots (or 100 gm.) including container

(non-returnable) are as follows:—CODEINE, —alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYL-MORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).

PHENYTOIN SODIUM. — Quotations for 1-cwt. lots are 27s. 6d. per lb.

PHOSPHORIC ACID.—B.P. is 1s. 5½d. per lb. in 1-2-carboy lots. HYPOPHOSPHOROUS, B.P.C., in winchesters, is from 5s. 9d. to 6s. 10½d. per lb., as to quantity.

PHYSOSTIGMINE.—Rates per oz. for 25-oz. lots are as follows: ALKALOID, 157s. 6d.; SALICYLATE, B.P., 118s.; SULPHATE, B.P.C., 137s. 3d.

POTASSIUM BICARBONATE.—B.P. powder is 130s. per cwt.

POTASSIUM CHLORIDE. — In 1-cwt. lots B.P. is 1s. 6d. per lb.

POTASSIUM NITRATE. — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

PYROGALLIC ACID. — Pure crystals are 18s. per lb. in 1-cwt. lots.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home market are: ALKALOID, 8s. 9d.; SULPHATE, 6s. 7d. Extra charges for small lots.

SODIUM SULPHATE.—Makers' prices are from £10 10s. to £15 10s. per ton as to quantity for B.P. crystals.

STILBCESTROL. — Quotations are from 1s. 2d. per gm. to 1s. 7d., as to quantity.

Methylated Spirits

METHYLATORS' rates per gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over in one delivery, 5s. 0½d.; 100 gall. and under 500 gall., 5s. 2½d.; 30 gall. and under 100 gall., 5s. 4½d.; 10 gall. and under 30 gall., 5s. 6½d.; 5 gall. and under 10 gall., 5s. 9½d. Strength 64 o.p., 1d. per gall.; 66 o.p. (B.P.), 2d.; 68 o.p., 2½d.; and 74 o.p., 8d. more than the above rates. Tank wagon delivery: One halfpenny per gall. off list price:—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are 5d. per gall. above foregoing prices.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 3½d.; 100 gall. and under 500 gall., 5s. 5½d.; 30 gall. and under 100 gall., 5s. 7½d.; 10 gall. and under 30 gall., 5s. 9½d.; 5 gall. and under 10 gall., 6s. 0½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p., in one delivery, 100 gall. and under 500 gall., 5s. 7d.; 30 gall. and under 100 gall., 5s. 9d.; 10 gall. and under 30 gall., 5s. 11d.; 5 gall. and under 10 gall., 6s. 2d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and methylated shellac finish, 1s. per gall. over the prices for pyridinised methylated spirit [and not as published last week].

TERMS:—Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ACONITE. — Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is 18s. 6d. per lb.

ALOE. — Prime Cape on the spot is 165s. per cwt.; shipment, 158s., c.i.f.

ANISE (STAR).—Spot material is offered at 3s. 6d. per lb. Offers for shipment are 315s. per cwt., c.i.f.

ANTIMONY. — English, 99.6 per cent., £237 10s.; 99 per cent., £255 per ton.

ARECA NUTS. — Quotations are about 45s. per cwt. for spot material.

ASAFOETIDA.—Persian block is £15 per cwt., duty paid.

BALSAMS.—Quotations (per lb.) are:—*Canada*: New-crop for prompt shipment, 22s. 6d. landed terms. *Copaiba*: Soluble Para, spot, 13s. *Peru*, 10s. 6d., duty paid, and 9s. 3d., c.i.f., for shipment. *Tolu* (genuine as imported) on the spot is easier at 18s. 6d.

BELLADONNA.—A parcel of root testing 0.44 per cent. is offered at 1s. 6d. per lb. on the spot, duty paid; LEAVES are from 3s. per lb., as to test.

BENZON.—Good quality Sumatra block on the spot is £29 10s. per cwt. No. 1 for shipment, £29 5s., c.i.f.

BISMUTH. — In minimum 4-cwt. lots METAL is 17s. per lb.

BUCHU. — New-crop for shipment is 1s. 9d. per lb., c.i.f., and 2s. for spot.

CAMPOR. — Chinese (B.P.) powder on the spot is 3s. 7½d.; ¼-oz. tablets are quoted at 5s. 3d. per lb.; 2½-lb. slabs, 4s. 9d. per lb., all duty paid.

CAPRICUMS.—East African on stalk are 150s. per cwt., spot, and 130s., c.i.f., off stalk, 205s., and 175s., c.i.f.

CARDAMOMS.—Aleppy greens for prompt shipment are now 9s. per lb., c.i.f.

CASCARA SAGRADA.—New-crop offers for shipment are somewhat easier at from 245s. to 250s. per cwt., c.i.f.

CLOVES.—Zanzibar on the spot are 9s. per lb., and 7s., c.i.f., for prompt shipment.

ERGOT. — Portuguese for shipment is nominal at 16s. per lb., c.i.f.; spot, 16s. 6d.

GINGER.—African on the spot is 95s. per cwt. for new - crop and 85s. old crop; new-crop, for shipment, 87s. 6d. c.i.f. Jamaican No. 3 is 107s. 6d. on the spot, and at 102s., c.i.f., for shipment.

GUAIAECUM RESIN.—Quotations are about 3s. per lb. for spot material.

GUM ACACIA. — Kordofan cleaned sorts on the spot around 102s. per cwt. Offers for July-August shipment are 90s., c.i.f., and 88s. for August-September.

HONEY. — Spot supplies of Australian are from 102s. 6d. to 112s. 6d. per cwt., as to quantity; Argentine is steady at from 115s. to 125s.; Jamaican new-crop 120s. to 130s.

HYDRASTIS. — Root is 21s. 6d. per lb., landed terms.

KARAYA.—No. 1 gum on the spot is unchanged at 200s. per cwt.; No. 2 is 140s.; No. 1. for shipment, 185s., c.i.f.

LIQUORICE.—Natural whole root, spot: Anatolian, 55s. per cwt.; Russian, 38s.; Syrian, 40s. to 42s. 6d. Block juice quotations are 185s. per cwt., delivered. Turkish stick is 240s. and Italian stick, 475s. per cwt., both duty paid.

LOBELIA.—Herb is offered at 2s. 7½d. per lb., spot.

MASTIC.—Tears (f.a.q.) are 12s. 6d. per lb., on the spot.

MENTHOL.—Brazilian is 37s. 6d. per lb. Chinese, 39s., both duty paid. Shipment (c.i.f.): Brazilian, 34s., Chinese 33s. 6d.

MERCURY.—Nominal spot value is £71 per flask, ex warehouse.

MYRRH.—Aden selected sorts are quoted at £16 per cwt., on the spot. Siftings are from £7 10s. to £8 10s., and granulated, £13.

ORANGE PEEL.—Thin-cut is 2s. 2d. per lb., duty paid.

ORRIS ROOT.—Offers of average quality Florentine are about 155s. per cwt., ex-warehouse.

PAPAIN.—Spot values for East African grade one are 38s. 6d. and forward, 34s. to 36s., c.i.f., per lb. and grade two, 35s. to 36s., spot.

PEPPER.—Weak. White Sarawak is now 9s. 6d. per lb. on the spot and 8s. 3d., c.i.f., for afloat. Black Malabar is 1,060s. per cwt., on the spot, and 1,020s., c.i.f., for July shipment. Black Sarawak is quoted at 7s. 7½d. per lb., c.i.f., afloat.

PODOPHYLLUM.—*Emodi* root on the spot is 170s. per cwt. *Peltatum*, 336s.

QUASSIA. — Shipment offers are about 31s. 6d. per cwt., c.i.f.

QUILLAIA.—Whole bark is £105 per ton, c.i.f., and spot, £125.

RHUBARB, Chinese. — Spot offerings include: round Shensi at 12s. 3d. per lb.; rough round high dried, from 3s. 6d. to 8s. 6d. as to quality.

SARSAPARILLA.—Jamaican native red is 2s. 3d. per lb., c.i.f., and 2s. 8d., spot.

SEEDS. — ANISE. — Spot unchanged. Cyprian is 137s. 6d. per cwt., Turkish, 140s., duty paid, and 135s., in bond. CARAWAY.—Dutch is again easier. Sellers quoting 83s. 6d. per cwt., duty paid. CELERY.—Indian is firm at 1s. 11d. per lb., spot London. CORIANDER.—Steady. Spot, Morocco is 60s. per cwt., duty paid (55s. in bond); English, 67s. 6d. Shipment: Moroccan, new-crop, sellers asking 51s. 6d., c.i.f., London. CUMIN.—Few inquiries. Spot: Cyprian, 137s. 6d. per cwt.; Maltese, 155s.; Moroccan, 150s., duty paid.

DILL.—Dull market. Indian quoted at 80s. per cwt., spot London. FENNEL.—Unchanged. Indian offering at 177s. 6d. per cwt., spot London. FENUGREEK.—Firm Moroccan on spot is quoted at 47s. 6d. per cwt., duty paid. MUSTARD.—English, 65s. to 87s. 6d. per cwt., according to quality.

SENEGA.—Firm. Spot supplies cleared. For August-September shipment, 13s. 6d., c.i.f., now asked.

SENNA.—*Tinnevely* LEAVES: number 1 on the spot, 11½d. per lb.; number 2, 10d., and number 3, 8d. PODS, f.a.q., are about 1s. per lb. on the spot and 9½d., c.i.f., August-September shipment. Hand-picked range from 1s. 8d. to 3s. ex wharf. *Alexandrian* PODS, manufacturing, 1s. 10d. to 2s. 3d.; hand-picked, 3s. to 4s. 6d.

SHELLAC. — Dearer. Spot quotations are:—F.O.T.N., pure, 237s. 6d.; F.O. standard No. 1, 245s.; fine orange, 255s. to 285s. per cwt., ex-London warehouse.

TURMERIC. — Madras finger is nominal at 102s. 6d. per cwt. and Rajapore, 100s., spot London.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES'. — Dar-es-Salaam spot, 430s. per cwt., August-September shipment, 415s., c.i.f.; Sudanese and Abyssinian, 360s., c.i.f., spot, 420s., duty paid; Benguella, 370s., c.i.f., and 420s., duty paid. CANDELLILLA.—Spot is 635s. per cwt. CARNAUBA.—Prime yellow on the spot, at 1,250s. per cwt.; afloat, 1,220s., shipment, 1,200s., c.i.f.; fatty grey is 1,030s. on the spot; shipment, 940s., c.i.f. MONTAN.—Reibek crude on the spot is 125s. per cwt. OURICURI.—Spot, 0.5 per cent. impurities, 730s. per cwt. SPERMACETI.—Case lots are 1s. 9d. per lb. upwards as to quantity.

Essential and Expressed Oils

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE. — Spot supplies are offered at from 5s. 9d. per lb. for original drums.

BAY.—W. Indian is 8s. 6d. to 9s. per lb. on the spot.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE. — Brazilian on the spot is 31s. and 29s. 9d., c.i.f.

CAMPOR, WHITE. — Chinese is 3s. per lb., on the spot.

CANANGA. — Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 70s. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 20s. per lb. for spot.

CARDAMOM. — Offers are from 250s. per lb.

CASSIA. — Original drums are about 17s. per lb. for spot.

CEDARWOOD. — Spot quotations for African are from 4s. 6d. per lb.

CELERY.—British distilled is from 130s. per lb.

CHENOPODIUM. — 1-cwt. lots are 65s. per lb.

CLOVE.—English-distilled bud is about 70s. per lb. for 5-cwt. lots. Madagascar leaf is 9s. 3d. per lb., duty paid, and 8s. 6d., c.i.f., for shipment; redistilled (B.P.), from 17s. 6d. per lb., spot.

EUCALYPTUS.—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 5s. per lb., and 80 to 85 per cent., 5s. 3d. Forward prices are 4s. 9d. and 5s. 1d., c.i.f., respectively.

FENNEL. — Spanish sweet on the spot is quoted about 10s. 6d. per lb.

LAVANDIN.—Spot value is 17s. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is about 44s. per lb.

LAVENDER SPIKE. — Spanish is about 11s. per lb.

LEMON.—Firm. B.P. (4 per cent. citral) on the spot is from 36s. to 49s. per lb. upwards of 53s. for best quality.

LEMONGRASS. — East Indian is 6s. 6d. on the spot and 5s. 10½d. per lb., c.i.f.

PALMAROSA. — East Indian is from 42s. 6d. per lb., on the spot, and 37s. 6d., c.i.f.

PATCHOULI.—Seychelles for shipment is 52s. 6d. per lb. Penang for shipment is dearer at 50s. with spot offers at 55s.

PEPPERMINT.—Spot: *Arvensis*, Chinese, in drums is 25s. 6d. per lb. and Brazilian, 16s. Forward: Chinese, 23s. per lb., c.i.f. Brazilian, 14s. 6d., c.i.f. Italian "Mitcham" type oil is 49s. to 52s. 6d. per lb., as to quality and forward from 47s. 6d., c.i.f.

PETITGRAIN.—Paraguay on the spot is from 17s. 6d. per lb., and for shipment, from 16s. 6d., c.i.f.

PIMENTO. — English-distilled berry is about 70s. per lb., and imported, 55s.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s.; Siberian (*abietis*), 10s. 6d.

ROSEMARY. — Spanish oil on the spot is about 5s. 6d. per lb., duty paid, for B.P. quality.

RUE.—Spot offers are about 15s. per lb.

SAGE. — Spanish is offered at from 8s. 6d. to 9s. per lb., spot.

SANDALWOOD. — Mysore is 70s. per lb. for 3-case lots.

SASSAFRAS. — Brazilian natural is offering at 5s. 6d. per lb. on the spot.

SPEARMINT. — Offers of B.P.C. quality are from 62s. 6d. per lb.

WORLD TRADE

Chilean Peso Exchange Rate.—Chile is to end her present multiple exchange rate system and peg the peso rate at 110 to the U.S. dollar.

Italian Mercury Exports.—Italian quicksilver exports in May totalled 72 metric tons against 49 tons in April. The total for the first five months of the year was 444 tons compared with 390 and 337 tons in the same periods of 1952 and 1951 respectively.

Persian Imports Ban.—The Persian Government has decreed that no foreign currency will be provided for imports of luxury and other non-essential goods until October 22. For imports of essentials the ban will last until August 22.

Chinese Industrial Expansion.—Communist China's Ministry of Light Industry is building or expanding ten pharmaceutical works, the official government journal, *Peking Peoples Daily* reported on July 17. Mass production of antibiotics and other drugs, it said, would begin as soon as the building was completed.

Argentine Glycerin Export Trading.—The Argentine Foreign Trade Promotion Institute has taken over export trading in glycerin, paying soap makers 7.50 pesos per kilo in bulk, f.a.s., for soap-lye. The Argentine Central Bank has raised the exchange rate for glycerin to 14 free-market pesos per dollar.

South African Budget.—An increase in taxation in the form of a savings levy on companies by sixpence in the £ has been announced by the South African Finance Minister (Mr. Havenga) in his budget speech. That and other measures taken were, he said, aimed at curbing inflation, thereby decreasing the demand for imported goods and so alleviating the pressure on the country's balance of payments.

Brazilian Exchange Rate.—The Comptroller of Currency and Credit in Brazil has revoked Instruction No. 49 which restricted imports at the official rate (52.41 cruzeiros to £1) to a relatively small number of so-called "strict essentials." In future all imports of merchandise, as well as the corresponding freights, insurance and banking charges, will be paid for at the official rate. The rate on London, which had risen to 133 cruzeiros to £1 on June 19, has recently steadied at around 120. It will in future be applied mainly to remittances, transfers of interest and profits, etc. In order to boost exports and simplify exchange transactions, the percentage of the bills that may be sold on the free market (see *C. & D.*, March 28, p. 328) has been raised from fifteen and thirty to fifty. Thus menthol, sassafras oil, bois-de-roose and castor oils may now be sold abroad with 50 per cent. of the bills negotiable at the free rate. The position will be reviewed at the end of the year, when the Comptroller hopes to fix the percentage at a maximum of forty. Other items will probably be added shortly to the list of products benefited by the free exchange law.

PRINT AND PUBLICITY

Advertising Campaigns

GILLETTE INDUSTRIES, LTD., Syon Lane, Osterley, Isleworth, Middlesex: Most forceful advertising campaign ever undertaken by the company for any razor set will back the new Rocket set, No. 54.

J. ALLEN RUBBER CO., LTD., Whitecroft, nr. Lydney, Gloucestershire: Marigold latex household gloves are being nationally advertised.

Medical Propaganda

MANUFACTURERS' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists:—

ABBOTT LABORATORIES, LTD., Perivale, Greenford, Middlesex: "Cumopyran" (16-p. booklet).

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: "Mycil" (blotter); "Myancin", "B.D.H. Sex Hormone Preparations Dosage Table" (4-p. leaflet).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Neutradora" (two 2-p. leaflets); "Oblivion" (4-p. leaflet, which is also being sent to all dentists in the United Kingdom).

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10: "Dermasulf" (4-p. leaflet).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Ebefos" (4-p. leaflet); "Hepamino" (8-p. booklet).

GLAXO LABORATORIES, LTD., Greenford, Middlesex: "Years of Discretion?" (4-p. leaflet on Casilan and Estopen).

MENLEY & JAMES, LTD., Coldharbour Lane, London, S.E.5: "A Positive Step to Health—Reduction of Overweight" (deals with the relationship between overweight and the chronic degenerative diseases, Pp. 12).

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "Thephorin" (card); "Dromoran" (4-p. leaflet).

Booklets and Leaflets

ASHE LABORATORIES, LTD., Leatherhead, Surrey: "A Classified Reference to Amplex Tablets," pp. 26.

BRITISH CHEMICAL PLANT MANUFACTURERS' ASSOCIATION, 14 Suffolk Street, London, S.W.1: "Services to Members," pp. 8. The booklet outlines the history, organisation and services of the Association and has been prepared for the benefit of firms inquiring about membership.

BAKELITE, LTD., 12 Grosvenor Gardens, London, S.W.1: "Vybak Rigid Sheet," Pp. 16.

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10: "Crookes Vitamin Index," second edition, 1953, pp. 52.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Insulin Novo Lente," Technical booklet produced by Novo Terapeutisk Laboratorium A.S., Copenhagen, N., whose Novo Lente insulins, Evans Medical Supplies, Ltd., are distributing in the United Kingdom. Pp. 36. The booklet is in English.

G. F. GERHARDT, LTD., Fenchurch House, 5 Fenchurch Street, London, E.C.3: "The Most Modern and Effective Way of Killing Rats and Mice," pp. 4. Deals with the use of Dethmor-warfarin.

POLAK & SCHWARZ (ENGLAND), LTD., 50 Great Cambridge Road, Enfield, Middlesex: "Macrocyclic Oxalacetones" by M. G. J. Beets and W. Meerburg, pp. 8.

P. SAMUELSON & CO., Roman Wall House, 1 Crutched Friars, London, E.C.3: "Progallin-A and Progallin-P," pp. 12. "The Progallin Antioxidants"—Nipa Technical Information: list items 32, 45—1953, pp. 8.

UNILEVER, LTD., Unilever House, Blackfriars, London, E.C.4: "Synthetic Detergents," pp. 16. Reprint of speech delivered by the chairman of Unilever, Ltd., in London on June 10.

Price Lists

P. SAMUELSON & CO., Roman Wall House, 1 Crutched Friars, London, E.C.3: Nipa Laboratories, Ltd., January 1953 price list, pp. 4.

TRADE MARKS

From the "Trade Marks Journal," July 22
For agricultural and horticultural chemicals (1)
TERREX, 716,092, by Scottish Agricultural Industries, Ltd., Edinburgh.

For preparations for the hair in made-up kits (1)
TONI, 707,213, by Gillette Industries, Ltd., Isleworth.

For perfumes (3)
MAI BUSURU, 714,555, by H. E. Darby Ltd., London, S.E.19.

For pharmaceutical preparations (5)
DOLCIS, 690,651, by Upsons, Ltd., London, S.E.1. PROMETRON, 713,941, by Schering Corporation, New Jersey, U.S.A. CUMOPYRAN, 714,339, by Abbott Laboratories, Chicago, U.S.A. PARADORMIN, 718,588, by Dormin, Inc., New York, U.S.A.

For pharmaceutical and medicinal preparations and infants' and invalids' foods (5)
KARIMULCIN, 709,889, by the Karimul Products Society, Ltd., Wellington, New Zealand.

For all goods (5)
BENDOGEN, 711,762, by Aktieselskabet Gea Copenhagen, Denmark. MARCOUMAR, 715,286, by Roche Products, Ltd., Welwyn Garden City. HARLEMENSIS, 715,610, by C. De Koning Tilly, Haarlem, Holland. BC CAR-AL, REDISCORB, 718,236-38, by Shar & Dohme, Ltd., Hoddeston. GUANIMYCIN, 718,382, by Allen & Hanburs, Ltd., London, E.2.

For surgical, medical and hygienic bandages (5)
SANIPAX, 713,549, by Aktiebolaget Walco Stockholm, Sweden.

For medicated tonic wines containing iron (5)
FERVINO, B715,757, by Potter & Clarke Ltd., Barking.

For devices incorporating or coated with insecticidal chemicals for repelling or destroying flying insects (5)

FLYBEGONE, B715,879, by Harold Am Roemmele, Glasgow.

For medicated beverages for human use containing glucose and vitamin C (5)
GLUCADE-C, 716,415, by C. M. Calthorp & Co., Ltd., London, N.16.

For dental filling materials (5)
ORTHOFIL, 716,539, by Dental Fillings, Ltd., London, N.16

For medicated toilet paper and tissues and paper handkerchiefs (5)

TOTSTISU, B717,472, by the British Paper Perforated Paper Co., Ltd., London, E.9.

For preparations of vitamins for addition to foods for humans (5)
MICRATIZED, 717,484, by Nopco Chemical Co., New Jersey, U.S.A.

For medicated salves other than eye salves for human use in the treatment of abscesses (5)
ILONIUM, 717,524, by Thomas Vallance Duncan, Tarbert Argyllshire

For first aid boxes, surgical dressings, medical and surgical plasters and bandages (5)

DOMESTIC SCIENCE ASSOCIATION, LTD., 717,586, by Domestic Science Association Ltd., Bournemouth.

For insecticides (5)
LYXASTAN 717,999, by the Standard Disinfectants Co., Ltd., London, S.W.1.

For yeast for medicinal use (5)
NOVOXIL, 718,023, by Donald Arthur Edward White, Hull.

For medicines for human use (5)
GROMIDIN, 718,083, by Bengue & Co., Ltd., Alpertown.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than the first post on Wednesday of the week of insertion.

Thursday, August 6

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, visit to Goya, Ltd., Amersham Bucks. Members are being notified by post of place and time of departure.

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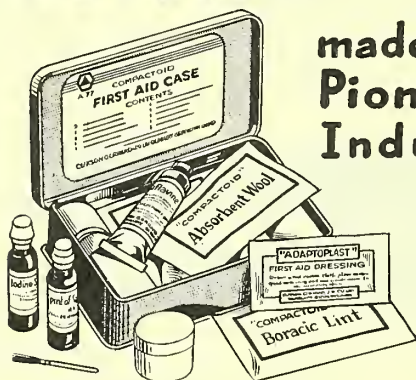
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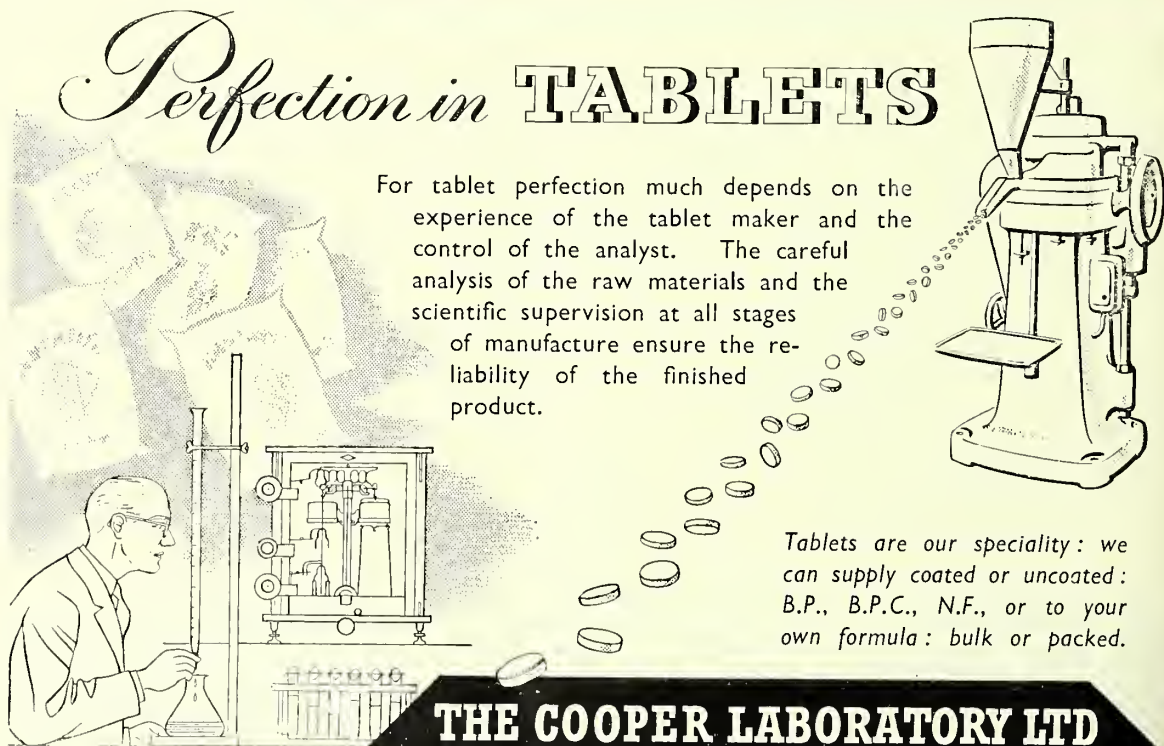
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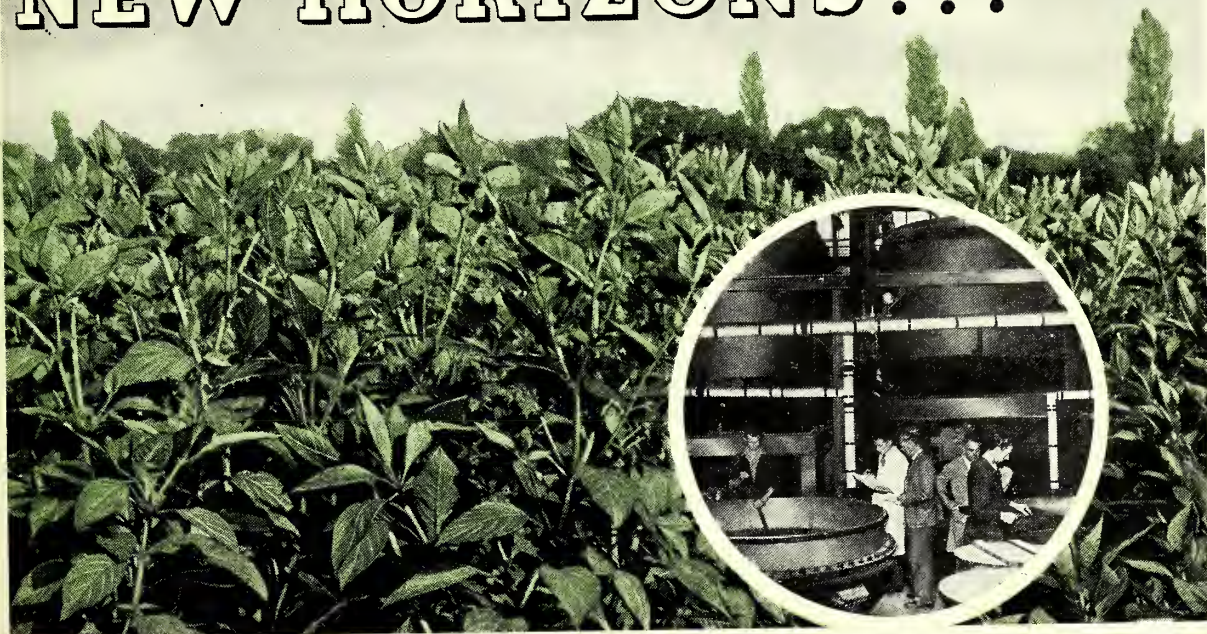


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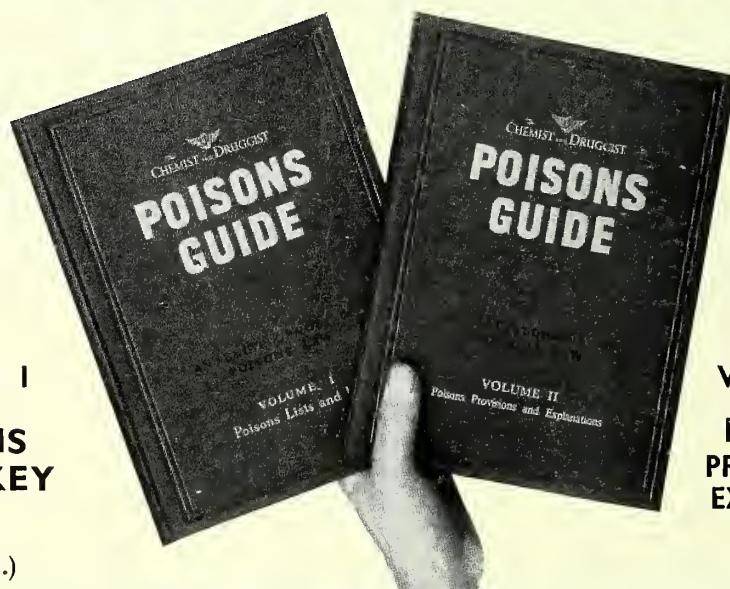


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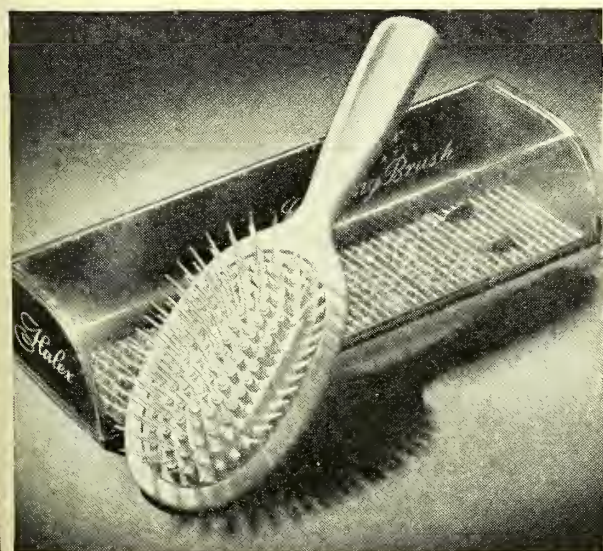
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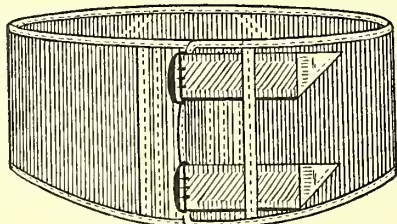
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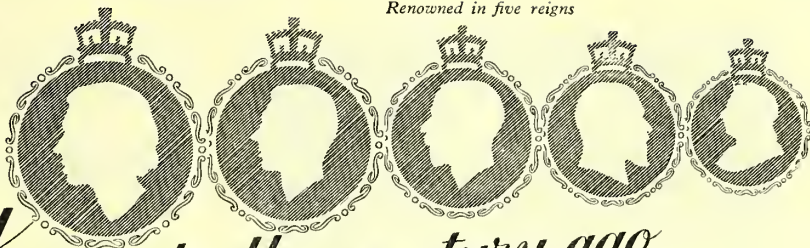
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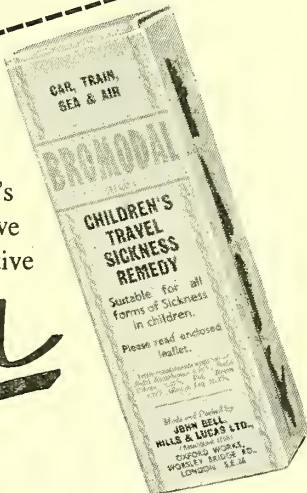
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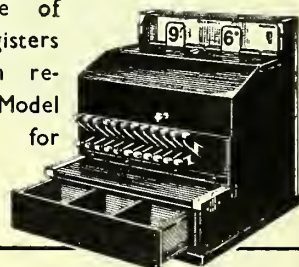
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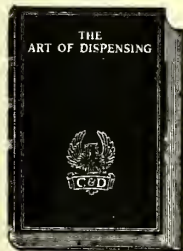
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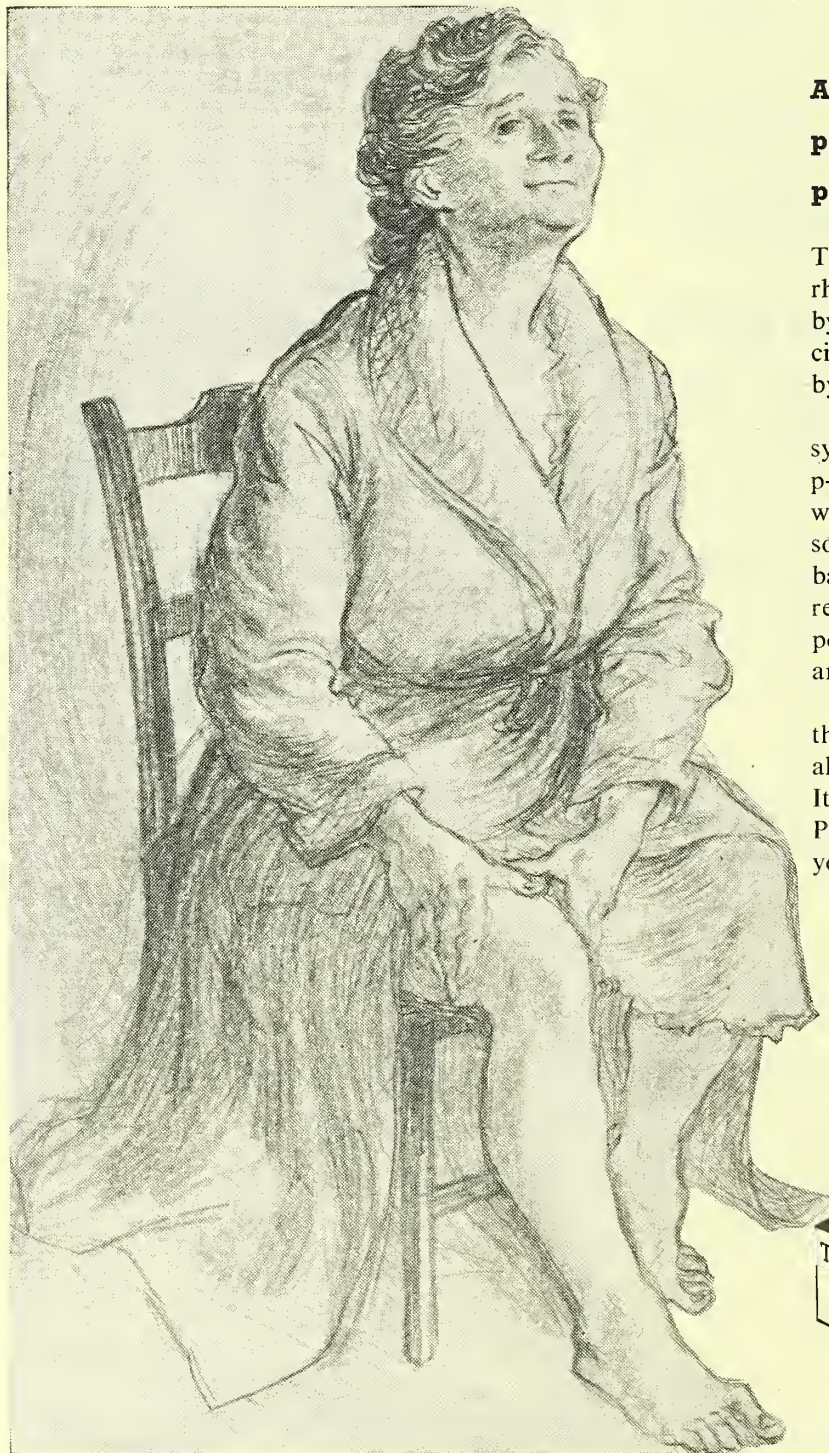
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